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Higher Education SUPPLEMENT

October 29, 1976. No. 262

Price 18p

Fee rise may bring first fall in university numbers since 1939

by Annabel Farnham

University numbers may drop next year for the first time since 1939, a disclosed prediction by the Department of Education and Science.

It is understood that officials in the DES think the planned rise in undergraduate fees to £650 and postgraduate fees to £750 will result in 1,000 fewer university students in 1977-78 than in 1976-77, a drop of 2.5 per cent.

They expect the university population to be only 268,000 in 1977-78 compared to 275,000 this year, and a Government target of 285,000 before the fees were raised. This would mean that university numbers were 17,000 fewer than the target.

This predicted fall in numbers is apparently being used as one justification for the 4 per cent reduction in university resources next year, announced recently by Sir Frederick Dalton, chairman of the University Grants Committee.

If the same decrease occurred throughout higher education, there would be a fall in the numbers of full-time students to pre-1974 levels, from a predicted target of 523,000 to 492,000.

A hint of the department's thinking was given in the summer when Mr Mulley, the Secretary of State for Education and Science, announced the proposed increase in university fees.

Universities and other institutions to apply the new rates in full, and the savings achieved from them and from the associated reductions in numbers will be reflected in the grants to universities and in the Rate Support Grant at the appropriate times.

Informed sources in the universities, however, do not believe that such a drop is likely. They consider that the university population is still likely to rise next year to 275,000, which would be only 6,000 short of target. This is assuming that some students are deterred from entrance, but that very few drop out mid-course. They also deny that significant savings could be made even if the more gloomy DES forecasts turn out to be right.

There are four main categories of students who pay their own fees and so are "at risk" of dropping out. These are: home undergraduates who do not qualify for a grant, for example, those who have already done a first degree; there were about 11,000 last year, and the number is not likely to change substantially this year. They should not be confused with those on the minimum grant, who from next year will have their fees paid.

Home postgraduates, who support themselves, they make up between one quarter and a third of the total and are likely to be about 10,000 this year.

The last two categories are overseas undergraduates and postgraduates. The Committee of Vice-Chancellors and Principals estimates that this year those without a British Government grant will number about 11,000 and 14,000 respectively.

The grand total of those who fees rise therefore is 46,000 of whom about 16,800 entered this autumn. When overseas student fees were last raised by more than 100 (from £70 to £250 in 1967), the number of overseas university students initially dropped sharply, but pre-1967 levels were quickly reached and passed.

The numbers for 1966 to 1970 were 17,412, 15,497, 15,894, 16,770 and 18,252 respectively. Undergraduate applications do not appear so far to have been affected. The total number of applications for October was 28,665 compared with 26,843 at the same time last year, an increase of 6.8 per cent.

Mr Ronald Kay, secretary of the Universities Central Council on Admissions, said, however, that any decline in interest by overseas students would not show yet, because they tended to apply late in the year. Information about fee increases would probably not have reached them yet and any deterrent effect they might have would probably show more in how many offers were taken up.

Individual universities are finding it hard to predict what exactly will happen, but are all adamant that any reduction in numbers will not produce any initial saving.

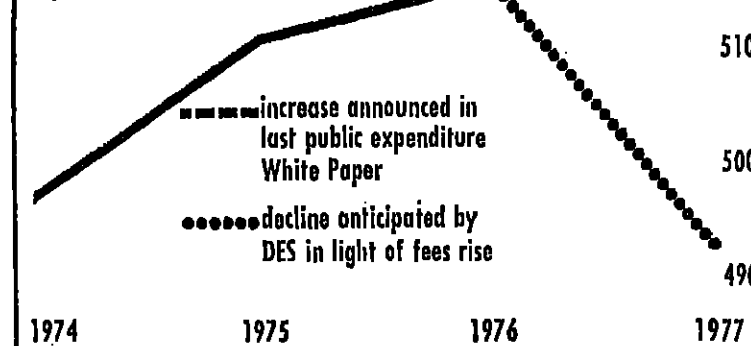
Mr Geoffrey Caston, registrar of Oxford University, said: "We find the effect of the proposed increase totally unpredictable. A third of our postgraduates are self-supporting, so there might be some change in numbers."

"If there were a drop, I do not see any great saving. There certainly would not be a saving proportional to the percentage decrease. There would be no saving on staff numbers nor on heating or lighting. The only saving would be in the scientific materials that students consume, but this would be totally insignificant."

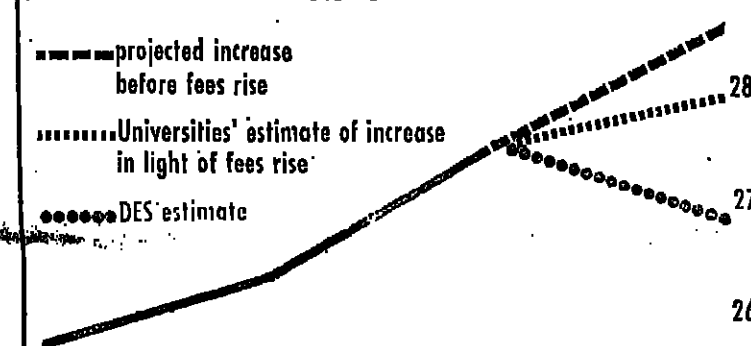
Mr R. E. MacPherson, registrar of Cambridge University, said that the university was waiting to see what the fees were going to be before working out the likely effect on numbers. In the event of a drop he foresaw no initial saving whatever.

HOW MANY STUDENTS NEXT YEAR?

ALL FULL-TIME STUDENTS IN HIGHER EDUCATION



STUDENTS IN UNIVERSITIES



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Two more men's colleges at Oxford, Magdalen and St Edmund Hall, are considering going coeducational. All the other colleges are being asked for their views, as part of a university review of its five-year experiment which admitted women undergraduates to five men's colleges only.—TES.

A final decision on the Schools Council's proposal for a common examination at 16-plus is to be delayed while there are further consultations, Mrs Williams, Secretary of State for Education and Science, said in a written reply in the House of Commons this week. Among those to be consulted are employers, trade unions and those in further education.

Government to scrap adult council

by Sue Reid

The Government is planning to abandon the proposed national advisory council for adult and continuing education.

The decision follows a condemnation of the "white tank", a proposal of the 1973 Russell Report and due to be established early next year, by the Association of County Councils.

The ACC's education committee, responding to a key consultative document on the proposed council distributed to local authority associations in July, has told the DES that it is opposed to the idea.

After a meeting of the committee last month the DES was informed: "In the present financial circumstances a new national body should not be set up to fulfil a function which could be adequately discharged, with suitable modifications, by the National Institute of Adult Education."

The DES has not confirmed the decision which many in adult education believe has already been taken. A spokesman for the department told the THES: "More steps have to be taken before any decision on the advisory council can be made. We have only recently received the reactions from the various associations."

Mr Geoffrey Fowler, MP for Woking, gave a firm pledge that the council would be set up next year when he was Minister of State overseeing higher education. He told leaders of the NIAE in July that it would be established once detailed talks

'Green Shield stamp' scramble for students

by Frances Gibb

The Government's proposals to increase tuition fees may cause a scramble for students and a consequent lowering of academic standards, Sir Brian Flowers, rector of the Imperial College of Science and Technology, warned last week.

In his annual commemoration day address he said that the problems caused by raising the total fee income so sharply that it became a significant proportion of a university's budget, with a consequent reduction in Government grant, would emerge starkly when student intake failed to materialize.

"Universities will need to exercise special determination that the financial pressures do not force a lowering of academic standards in a panic scramble for students", he said. "I hope we may avoid an era of promotional gimmicks whereby all who complete a registration form on the first day of session are offered 10-fold Green Shield stamps."

The Government had, however, solved one of the universities' problems by changing the accounting rules for halls of residence and refectories, he said.

The changes had given hope that the universities could extricate themselves from "the apparently endless circle of increased prices, loss of custom, enlarged deficits, and therefore further increased prices."

Sir Brian also noted with approval the Government's support for postgraduate education, expressed in the recent White Paper, and for the work of the research councils, whose responsibility for advanced courses it had decided to leave alone.

Imperial College was planning curricula changes which would bring in more multi-disciplinary courses, Sir Brian said. Together

with University College, London, it had been designated a centre for major integrated multidisciplinary programmes of research into marine structures and materials.

One of these new courses was a BSc (engineering) degree course in technological and social sciences to be run in 1978. "Its aim is to produce a new kind of graduate who will combine a knowledge of scientific and engineering principles, the theoretical being provided in the first two years of the course, together with an understanding of the social sciences, the third year integrating the technical and social aspects of the subject matter."

This was an important innovation, Sir Brian said, because in future it will no longer be sufficient for a new industrial development to be technically feasible. "It will have to be socially acceptable too."

The college was also planning for multidisciplinary courses at postgraduate level, which included an MSc in technology and development and one in environmental technology.

Demand for science and engineering at the college was the highest for 10 years, he said. The undergraduate student intake was just over 1,000, the largest ever.

Although in the past the college had been concerned about a decline in the basic skills of newly admitted students, the intake of social quality of these admissions had remained high.

The college was collaborating more with its European counterparts, he said. A visit by staff of the college to the *grandes écoles* planned, and visits to the Netherlands and Germany were also being considered.

"With a quarter of our students coming from over 90 foreign and commonwealth countries, it has to be accepted that we are already an international institution. But we need to strengthen still further our links with Europe."



The Brighton and Hove Engineering, which opened this week, will serve as an industrial training centre for student engineering apprentices from universities, polytechnics and industry. Sponsored by Christie's and sited at the original Goldstone Pumping Station built in 1886 to provide water for the Brighton district, the engineering will offer six-week practical courses in engineering history and workshop practice. The station's first 100-year-old beam engine has been put in working order and the second will be restored by the first group of engineering apprentices to attend the engineering in January.

Health students' aim is greater integration

by Marian Blaikley

Health students have reaffirmed their intention to work positively for greater cooperation and integration among the various professions within the National Health Service.

About 30 students representing most of the medical and paramedical professions, including occupational and speech therapy, medicine, nursing and physiotherapy, attended an educational meeting, which was organized by the National Union of Students in Manchester last weekend.

One of the sector's main concerns has been the fragmentation of patient care that results from the present divisions between the professions. This concern was reflected in the choice of topics for discussion.

The morning session was spent examining a case history from the point of view of every profession involved in the patient's care, to indicate how the different skills interrelate and the gaps that remain.

The resulting discussion led to a number of practical suggestions about how students could work at a local level for greater integration

of health student training. They could improve communication with health students from the other professions; get involved in curriculum committees to press for the kind of development which has already taken place at the Middlesex Hospital, where nursing, physiotherapy and medical students join up for a geriatric course; and organize joint case conferences and teaching.

Paul Blomfield, a member of the NUS executive, outlined the union's long-term policy for health students' education, which includes pressing for a complete reorganization of training, and for the introduction of a UCA-type clearing house for those health students not yet accorded such a service. NUS policy on these and related matters is to be put forward in detail in evidence to the Royal Commission on the National Health Service.

During the afternoon, discussion switched to fringe medicine with talks on homeopathy and osteopathy. Mr Brian Daubeny, a former BBC producer who now makes visual aids for the handicapped, spoke about the continuing lack of facilities for the deaf and hard of hearing.

New pledge in-service training SRC budget faces cut of nearly a quarter

by Judith Judd

The Government's support for expansion of in-service training for teachers was reaffirmed by Mr Gordon Oakes, Minister of State for Education, in a speech at a conference on the subject organized by the National Union of Teachers and the National Association of Teachers in Higher Education.

The Government is committed to a decline by about 2 per cent a year. It suggests various cuts in in-service training for teachers, such as a reduction in the number of teachers on full-time courses, or a reduction in the number of teachers on part-time courses.

Mr Alan Evans, senior official of the NUT education department, said that the required annual rate of decrease in the council's budget for 1978-79 will be between 2.7 per cent and 3.3 per cent.

Even at the former level the council has raised doubts about its ability to maintain scientific research in universities and polytechnics adequately. The new estimates can only exacerbate this situation.

Although the allocation of the science budget for 1977-78 has not yet been made, it seems likely that the SRC's share will be 12.5 per cent, a reduction of about 3 per cent on the budget for the current year.

The council is still hoping that the Treasury will reverse its decision only to cover part of the in-

creased cost of subscriptions to international scientific bodies, resulting from the fall in value of the pound.

But it fears that if only partial supplementation is allowed this would raise major policy questions, such as the extent to which it could continue to participate in the European Organization for Nuclear Research and other international organizations.

The Science Research Council will make no more grants until the dispute with the Government over its "cash limit" policy is settled.

An announcement about grants would normally be made in November or December but the council is worried by the effect of the fall in the pound on the international subscriptions, which account for about 30 per cent of its annual budget.

It is trying to persuade the Government to change its policy of no longer automatically meeting increased costs of public bodies.

Grants for the council's rolling programmes will be announced in the normal way. But holders will be asked to defer filling vacant posts and to avoid commitments for capital expenditure where this can be done without damaging the work.

Sir Sam Edwards, council chairman, said that unless negotiations with the Government were successful the council would be several million pounds in the red. The council has already announced plans to save £3m.

'Competition not the way to conserve resources'

Britain's higher education system should be planned on a collaborative basis not a competitive one, to ensure a rational use of resources, Mr Gerry Fowler, former Minister of State overseeing higher education, has warned.

Speaking at Trent Polytechnic last weekend Mr Fowler called for a review of local authority involvement in the management and financing of polytechnics, and said this should include an examination of new course provision.

He added: "The time has come when we must think hard about what is the ideal method of combining local authority involvement in the management and financing of polytechnics, with the national interest that their work inescapably evokes. We must think too of what mode of funding and financial responsibility lie in the same hands and can give to the institutions themselves the greatest incentive to efficiently use the resources at their disposal."

This review had to deal with the problem of ensuring that there was some coordination of provision throughout higher education, especially course provision.

A great deal of staff time and money in polytechnics was devoted to securing approval for their courses from the CNA. Many of those design to meet a genuine need.

"This is a waste of time and money, not least for the universities, which have seen the same need at the same time, and have also designed courses to meet it," Mr Fowler said.

We must now ensure that there is a regular interchange of planning information at both regional and national level. We shall only secure a rational use of resources in the development of our higher education system if we plan it on a collaborative rather than a competitive system.

Commenting on the concept of differential grants for engineering and science students, Mr Fowler said: "Some argue that there should be an additional grant from public funds, of any £300 per annum on top of the present £125 per annum. Others suggest that science and engineering students alone should receive a full award while other students receive a lesser sum, or in the case of not conspicuously useful disciplines students should pay the whole cost of their education."

Mr Fowler condemned all these suggestions. The problem of recruiting science and engineering students lay less within higher education than in the school system or in subsequent employment. Industry itself had to ensure that qualified engineers were more suitably rewarded and had a better career structure.

He said that higher education should avoid making the recruitment to certain types of engineering courses more difficult and as far as the proposition of vocational engineers were more suitably rewarded and had a better career structure.

Plaid Cymru plan new Welsh university

by Tony Heath

A new University of Wales should be created by drawing together the existing Welsh institutions of higher education. This is proposed by Plaid Cymru, the Welsh Nationalist Party, in a lengthy policy statement presented last week at the party's annual conference in Aberystwyth.

The statement is the party's most detailed pronouncement on one of its educational aims. It was introduced by Plaid Cymru's education spokesman, Mr Hywel Roberts, head of business studies at the North East Wales Institute of Higher Education.

The policy envisages the end of "the divisive binary system" and the vesting of control of all higher education in Wales in a proposed Higher Education Commission. This body would take over the higher education planning functions of the Council of the University of Wales and the Welsh Joint Education Committee.

"This commission would be responsible to the Secretary of State for Education in a Welsh government when such a government is established", the policy document states. "In the interim period it is essential that this commission be established as soon as possible and made responsible to the elected Welsh Assembly."

The new University of Wales would be created from the existing University colleges at Cardiff, Swansea, Aberystwyth, Bangor, Lampeter, and the Polytechnic of Wales, the newly formed institutes and colleges of higher education, and the remaining independent colleges of education becoming constituent colleges.

It is proposed that the new college would develop some degree courses. But they would "continue to serve their communities by providing a range of non-degree courses on a full-time, part-time and short-course basis."

One important task envisaged for the new University of Wales Commission would be the strengthening of the federal structure of the new university. The elimination of wasteful duplication of resources would also be tackled by the commission.

In each discipline one or two colleges would be designated as centres of excellence and the corresponding departments would be of a minimum size to provide an honours and postgraduate school with teaching at the highest standards. Research programmes of major importance would be undertaken at the designated establishments.

Plaid Cymru's strategy makes possible the establishment of a Welsh-medium college teaching entirely through the Welsh language. It is thought that if this college was sited near one of the existing university colleges, contact between Welsh-speaking undergraduates and staff and overseas students would be enhanced.

The Welsh-medium college would not preclude the establishment of Welsh courses in other colleges. On the contrary, Plaid Cymru envisages the college acting as a resource centre to produce material to help those teaching through the Welsh language at other colleges.

Assuming that the new university will validate all diploma and certificate courses in Wales it would be possible, Plaid Cymru says, to ensure a degree of comparability between existing HNDs, the new TEC and BEC diplomas, and the DipHE. This would enable students to transfer between the various colleges of the new university.

The composition of the projected Higher Education Commission merits less than 100 words in the policy statement. The suggestion is that it "will consist of representatives from the colleges of the new university, representatives from industry and commerce and the trade union movement in Wales, and representatives of the Welsh local education authorities."

Society today

A new magazine, *Society Today*, is being published for students and teachers in colleges of further education and schools. A bi-monthly offshoot of *New Society*, it is intended to be relevant to examination syllabuses in the social sciences.

UN university launched with Britain's 'moral support'

by David Walker

The new United Nations University was launched in London this week with an appeal for \$500m. But all the British Government could offer was "moral support".

Mr Prentice, Minister for Overseas Development, told a conference at the Royal Society that the university was unfortunate to have been born in 1973, at the start of the world recession. None the less, it was welcome.

Dr James Hester, rector of the university, which has its headquarters in Tokyo and so far has been largely funded by the Japanese, emphasized that the university's charter guaranteed its academic autonomy and said the \$500m endowment fund would cushion it from political interference. The university planned to live off the \$40m a year interest it might get from such a sum.

Under a council appointed by the general secretary of the United Nations and the director-general of Unesco, the rector was free to appoint staff, Dr Hester said. The university's main programme, of research into world hunger, had been chosen independently with the aid of a worldwide network of academic advisers which he wanted to continue to build up.

This emphasis on working through established universities and research institutions was welcomed by Mr Prentice, who used the occasion to describe recent changes in the policy of British overseas educational aid. He said Britain was moving away from giving large-scale grants towards the establishment of new universities abroad; instead aid was being directed towards university departments concentrating on development work.

"We would agree with the decisions of the council of the UN University on its priorities and its plans to give preference to setting up 'associate' relationships with existing educational institutions

rather than starting new institutions."

"As part of our general aid strategy of helping the poor, we are trying to give increasing consideration to the question of who benefits and who pays for the education to which the United Kingdom contributes in developing countries. Some of the institutions overseas may draw their students from too narrow an income bracket to justify support from the aid programme. We are, nevertheless, very anxious to continue to play our part in building up the 'know-how' needed for the development of the Third World", he said.

Dr Hester, a former president of New York University, said the aims of the UNU were threefold. It was a non-political means of identifying the problems of development and finding the means to solve them through techniques natural to scholars; it was a way of concentrating applied knowledge, especially on Third World concerns; and not least, it was in ideal form an international community of scholars.

He accepted that in the present economic circumstances Britain could not offer money to the university. What he hoped for were intellectual contacts, expertise, schemes of fellowship, and associations.

But not all the British academics at the conference were immediately convinced. Dr Aiyun Williams, vice-chancellor of Glasgow University, wondered if the title of university was accurate, and suggested the UNU was more an institute of applied knowledge.

In reply Dr Alexander Kwapong, former vice-chancellor of the University of Ghana, who now serves as the vice-rector of UNU, said the original idea of a campus university had given way to a more flexible organization based on programmes administered from Tokyo but carried out in, for instance, the Institute of Nutrition of Central America and Panama in Guatemala, or the Central Food Technological Research Institute in Mysore, India.

'Give them the skills'

Universities and colleges should improve the performance of industry and commerce by producing more students equipped with the relevant skills and experience, Mr Donald Hutchings, principal of Loughborough Technical College, has said.

Speaking to the East Midlands Society for Commercial and Industrial Studies, Mr Hutchings said that universities and colleges are at last "waking up" to the harsh financial

implications of the cutback in educational spending. They are having to examine their priorities with unaccustomed ruthlessness and develop closer links with industry and commerce.

They now face two urgent tasks. First to help improve industry and commerce by producing suitably skilled students, and secondly to develop in students a fuller understanding of the need and value of industry and commerce in society.

Cruise to Rio at Carnival Time

See Rio de Janeiro at its most spectacular and enjoy all the luxury and comfort of a cruise at the same time.

On February 2, the 9,000-ton fully airconditioned Jupiter sets course from Barbados to Lush Grenada, onto Paramaribo in Surinam, Devil's Island and into the mouth of the Amazon at Belém, Fortaleza and Salvador follow before a magical 72 hour stopover at Rio. The homeward journey passes from Recife and Natal, to Dakar in West Africa, to Las Palmas and finally ending in Casablanca.

Prices for this 5 week "Rio Carnival Cruise" range from £708 to £2,350 per person, with flights direct to the ship in Barbados and homeward from Casablanca included in the prices, and available from Gatwick airport.

More details are in the inviting brochure, available at your Travel Agent now—or phone us on 01-388 0686, Monday to Saturday.

Thomson Winter Cruises

Prices subject to availability and adjustment
ATOL 152BC

Lecturers' pay delay

The Association of University Teachers has not yet agreed on lecturers' pay from this October because it is still negotiating with the Government over the injustices incurred in last year's salary settlement, Mr Laurie Sapper, general secretary of the AUT, said last week.

The union expects a meeting with Government representatives at the end of this month.

The whole issue had also been delayed because the Government had raised the question of increased pay in the public sector and the AUT had been obliged to show that incremental increases were not add-

ing to the total salary bill, Mr Sapper said.

"We have demonstrated that far from increases, there is an incremental loss of 77 pence a head a year, possibly because of the large number of lecturers now arriving at the maximum point on the incremental scale", he said. These figures had now been accepted by the University Grants Committee and the Government.

The AUT has accepted however that the settlement from October 1 will have to be within the pay policy limits of 4 per cent, with an overriding maximum of £4.

Cruise The Mediterranean This Christmas

Jupiter, 9,000 tons of sheer elegance and luxury will be embarking on her Christmas and New Year cruise on December 22.

You can join her and cruise from one end of the Mediterranean to the other. On Christmas Eve you could be listening to Midnight Mass in Bethlehem, and on New Year's Eve attending the most magnificent night in the world, the Feast of the Three Kings in Madrid.

All in all, a superb cruise on a ship that offers all the comfort and amenities you need, with service and entertainment to suit the most discerning of tastes. Prices for this 14-night cruise range from £314 to £810 per person, with flights from Gatwick, Manchester and Luton direct to and from the ship included in the price. The details are to be found in the "African Coast and Mediterranean Cruises" brochure, available at your Travel Agent now. Or ring 01-388 0686, Monday to Saturday, but don't delay, Christmas will soon be here.

THOMSON WINTER CRUISES

Prices subject to availability and adjustment. ATOL 152BC

Strathclyde centre to take a close look at communication

A new teaching department designed to integrate the study and application of educational methods at university with practical aspects of educational technology, is to be set up at Strathclyde University next month.

It will incorporate and expand the work of the existing audio-visual unit, and engage in teaching and research with practical aspects of education and teaching methods in higher education.

Mr Roderick Maclean, head of the new centre and formerly director of audio-visual services at Glasgow and Strathclyde Universities, said: "The centre will be closely linked with the academic work of the centre. He also believes educational technology should be related to the university's teaching requirements."

The study of communication in education, the university intends this subject to be separate. The centre will offer first degrees in communication. Postgraduates will study the subject on part-time and full-time courses in areas of considerable social and economic importance such as industrial training.

The centre will also organize, coordinate and develop in-service training courses. This will involve the examination and encouragement of new teaching approaches and consultancy services to both staff and students.

Its academic staff of three includes Mr Alex Main, who for the last three years has been seconded to the committee of vice-chancellors and principals as coordinating and research officer for the training of university teachers. He will advise on educational methods.

Programming in to universities

The Computer Board has set up a two-year research programme to investigate the use of computers in teaching and research for use by universities and research council institutes.

The research programme was conducted from the Science Research Council's Research Laboratories by a three-member team. The decision to set up the programme resulted from a report sent to the Computer Board by Professor Mike Walls, of University.

Esso bursaries for five students

Bursaries initially worth £100 a year have been awarded by Esso to five students from the CNA. Many of those design to meet a genuine need.

The bursaries were awarded on the basis of essays submitted by students in response to a competition to increase interest in chemical engineering.

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Industry and college link call

The Department of Industry should take over responsibility for about 12 teaching and research colleges to be closely linked to economic development, Professor Kenneth Alexander, chairman of the Highlands and Islands Development Board, said last week.

In a speech delivered in Edinburgh at a degree congregation of the Council for National Academic Awards, Professor Alexander said that without such experiments it

was possible that academic freedom would come under increasing pressure from demands for greater relevance.

He would prefer to see willing volunteers attracted by the excitement and promise of such a new approach in industry-linked institutions rather than reluctant students thrust into engineering by an external agent of £300 per session, as had been proposed.

Shirley Williams, page 4. Leader, page 14

Mrs Williams considers higher science grants

by Judith Judd

Higher grants for students studying science and engineering are being considered by the Government, Mrs Shirley Williams, Education Secretary, said.

But this was only one of the proposals being considered to encourage young people to take up subjects which are at present under-subscribed.

Mrs Williams was speaking at the opening of a new building at Rockingham College of Further Education, near Rotham.

She called for regional consultations during the next four months between teachers, industrialists and representatives of further and higher education to consider how to further the present debate on the curriculum and basic skills.

The department's proposals would be discussed before any action was taken, Mrs Williams said. It was untrue that the department was seeking national control of the curriculum.

"Among the splendours of the English system are its flexibility, its imagination and the freedom of the

teacher in the classroom. No one wishes to jeopardize that."

On the question of examinations she said in the past too much store might have been set by them.

"But we must avoid moving too far in the other direction so that lack of rigour removes the incentives for young people and destroys the value of examination results for employers and colleges and universities."

On the proposals for a common system of examinations for 16-year-olds Mrs Williams said she could see the attractions of such a system when so many fifth forms had to mount courses for both GCE and CSE examinations at considerable costs in terms of effort and resources.

"On the other hand, the value of any examination depends upon its wide acceptance and recognition."

Such changes could not be rushed but there was no question of the Government simply shelving the Schools Council recommendations.

She said whether or not standards were being maintained the requirements were rising.

Campaign may benefit historians

A question has been tabled in the Commons as part of a campaign to force the Church Commissioners to abandon all fees for looking at parish registers.

Mr Philip Whitehead, Labour MP for Derby North, who will ask the question has responded to appeals from the Society for Local Population Studies and other research organizations.

The campaigners hope to persuade MPs to vote against the commission of fees for looking at parish registers for a number of years and retain those for looking at registers.

Research organizations argue that parish registers are public documents and the public should not be charged to look at them. Between 20 and 30 per cent of registers are still in parish hands.

Mr Christopher Charlton of the Society for Local Population Studies, said: "It is monstrous that people are receiving money simply by virtue of their custody of certain records. The registers are paid for and legally owned by the parish."

Historical researchers, consulting parish registers, can be charged £45 for every century of registration examined and about £180 for an investigation covering the period from the mid-16th to the mid-20th century.

In practice the clergy rarely charge the fees but the campaigners are concerned that the commission have rejected the arguments for abolition of fees clearly intend them to be collected.

A spokesman for the commission said a proposal would go before the General Synod next month for the compulsory deposit of a number of parish registers in diocesan record offices. The proposal would mean that a parish not meeting stringent conditions, its registers would be taken away.

If the Synod agrees, a measure embodying the proposal could be before Parliament next year. The commission were also considering charging fees based on the length of time spent studying registers.

Mr Charlton said people who had a study of parish registers at the moment would go to great lengths to keep them. If the commission had the registers transferred to public records offices, why were new ways of charging fees being discussed?

Oxford closed scholarships 'serve no academic purpose'

by Frances Gibb

Oxford University should abolish its entrance examination, scholarships and exhibitions and award places on the basis of A levels or reports and interviews, the Oxford student branch of the Communist Party has proposed.

In a booklet entitled "Privilege and Ideology: action against racism in Oxford University", the students say that Oxford is closing to attract the cream of Britain's school leavers.

Its applications have declined over the past 10 years despite the increased numbers of school leavers going into higher education. It is also the case that the university's intake contains even less state school pupils than the national average.

This has serious implications for the university's ability to staff the professions; it has always been important for a few working-class children to be able to fight their way through the grammar schools into the Civil Service and the BBC.

The present entrance system discriminates against applicants from state schools by often requiring different A level standards, for which few state schools can provide the teaching.

Exhibitions and closed scholarships, says the booklet, serve no academic or philanthropic purpose, and survive to suggest an inner

elite, designated by longer and larger rooms.

The booklet outlines a way for change. This includes reducing the 10 smaller faculties, only about 100 undergraduates, to a smaller number of colleges, also proposing restricting the number of college libraries to 10, and abolishing the fee for the use of the library.

Abolition of the fee for the use of the library would mean that the grounds and remaining buildings would be used for a variety of purposes. The college would be a place for students to live and study, not a place for a few to live and study.

Modernity and the university would be a place for students to live and study, not a place for a few to live and study.

But it adds: "This does not mean that Oxford should be just like any other university. We do not criticise the quality of the library, scientific equipment, or the style rather than content of the booklets."

The booklet is to be discussed at an informal meeting at Balliol College next Thursday.



This portrait of Dr Henry Miller, its late vice-chancellor, has been presented to Newcastle University by John T. Y. Gilroy, the artist.

Language test for newcomers

Essex University is for the first time requiring that all new overseas students whose language is not English must pass a language test.

The test, which is designed to be the basis on which to give the student an appropriate level of English language training, will be given to all new overseas students whose language is not English.

Mr Graham Chandler, the director, emphasized that the test would not be allowed to take away from the student's performance in the test.

But if a student does not pass the test, or having taken it, does not improve, then the student will be given a remedial course. The university has given help with English before, but this is the first time that it has been on a more formal basis.

Planned engineering course rejig meets opposition

Proposals to remodel the degree course in engineering science at Oxford are being opposed by 128 dons. They will be debated in Congress on November 16, and it is expected that a postal vote will eventually be called for.

The dons have signed a resolution calling on Hebdomadal Council to annul the decision and so give effect to what has been described as a fundamental reshaping of the course.

Hebdomadal Council put forward the decision on behalf of the physical sciences board saying that a major departure from the existing structure of final honours schools should be left to Congress to decide.

There were no recommendations from the council or the general board of the faculties.

Reshaping the course would mean the abolition of a final honours examination and a final honours school at the end of the three-year course, the physical sciences board would introduce a preliminary examination after two terms, and the division into two parts.

One would be taken at the end of the second year and the second at the end of the third year. The examination for the final honours would also be divided.

Among the 128 dons, representing almost all disciplines, opposing the changes, are eight engineering dons. They include Professor H. Motz and Professor W. S. Hemp.

Opposition is likely to be led by former vice-chairman of the general board of the faculties. Three heads of colleges are among the signatories to the resolution: Miss Rachel Trickett, principal of St Anne's College; Dr James Griffiths, president of Magdalen College; and Dr J. N. D. Kelly, principal of St Edmund Hall.

Don's diary

Monday

The beginning of method day and the fourth week of our term—the first for some other university departments. To my mind "method" means practice, so twice a week I take my tutor, group, and history, to the 10 smaller faculties, a large (2,200) comprehensive school 12 miles away in Bristol. Ten minutes' walk through Bath to the minibus makes me regret, as usual, the fact that the university is not in the city but perched on one of the seven hills surrounding it.

Pleasant drive through country for the most part until we reach Harefield, a post-war overspill council estate, to be confronted with the appalling sight of the prize-winning Wilts. vineyard factory. This low, spreading, black box, windowless and apparently lifeless, dominates the estate. It is visible from the school and provides for many of the pupils a constant reminder of how their next 40 or 50 years will be spent.

In spite of its problems Harefield is an enlightened school and the enthusiasm and cooperation of its teachers make possible, on a small scale, the kind of school-based work I would like to see become the overall pattern of graduate teacher training. On Monday morning students, teachers and myself work together with first-year children on the Keele Integrated Studies course. We plan the lessons, team teach and evaluate what has gone on in the classroom.

Students begin to see for themselves, through personal experience, the real problems, as well as the possible solutions, that exist in a comprehensive school and, with guidance, they begin to make that vital link between theory and practice which so many students cannot make. In PGCE courses, school-based work seems to go some way towards answering that fundamental criticism: we have teaching hospitals, why not teaching schools?

Afternoon (2.15-5.15) is devoted to curriculum studies. This year we have adopted a team teaching approach and this afternoon the lead lecture is on "evaluation". Considerable doubt and confusion reigns among the staff working group, to which I belong, as to whether mass lectures are useful and if so to what level and should they be compulsory? Do students in the first few weeks of graduate training with little school experience, gain anything useful from theoretical lectures, particularly in so arcane an area as curriculum studies?

We all agree that four lectures is inadequate and makes the selection of "essential knowledge" a near impossibility. At 5.30 we are discussing these problems with some urgency but reach no conclusion except to raise the whole issue of content in the PGCE course at a meeting at some future date when we have more time.

Wednesday

Prepare for my 11.15 lecture on the history of teacher training from 1800 to the present day. This is a mass lecture addressing 150 (optimum number) in a tiered lecture hall. Although quite appropriate when expounding on Samuel Wilderspin's infant galleries or the memorial system, I wonder whether the mass lecture is the most effective for present day students.

Nevertheless, I enjoy giving these lectures and today I feel that the subject is "relevant" even to those philistine students who complain that history of education is a waste of time. Whatever the changes in the PGCE course, and surely there must be radical ones soon, I would argue the case for some history of education if only on the grounds that it offers some common sense perspectives that students can grasp while drowning in a sea of educational theory.

Later in the afternoon I have an appointment with an educational press, currently head of upper school in a comprehensive, created out of her old secondary modern. Why are there so few women heads of mixed comprehensive schools? Why, for that matter, are there so few women in departments of education and even fewer professors and heads of school? The purpose of the meeting is, however, to make those miserable feminist points but to review the progress of an M.Ed. thesis on the history of secondary education since 1900 within a particular authority. We discuss the most interesting questions of how much "inside information" can be included in an academic thesis without provoking a libel action.

At 5 pm I attend a formal meeting of associate tutors of the university school of education. These are local teachers who, at our request, take on the task of advising, guiding and assessing a student on a teaching practice. Since we share responsibility for our students we had hoped to involve them more closely in formulating a new policy on teaching practice. But the discussion gets bogged down in administrative minutiae; a disappointing meeting ending at 7.15.

Thursday

The second session at Harefield. The whole morning is spent in the fourth year history workshop which was reported in last year's TES history supplement. Each student is made responsible for a group of about 15 boys and girls and undertakes to help the pupils select and work on a research project which will eventually form part of course work submitted for GCSE or CSE.

The students have to discover through trial and error that fine line between helping pupils to learn and "instructing" them. They soon learn to make this distinction since adolescent pupils have ways of showing resistance towards dominating and intrusive students all too clearly. Students help the pupils plan their work strategies, find and use resource material and, when appropriate, take them out of school.

Students are also expected to make clear to the pupils the difference between primary and secondary evidence and to prompt questions that will bring about some critical insights into the nature of history. This last one is particularly difficult to achieve, largely, I feel, because the students in their degree courses have not been encouraged to ask fundamental questions about their subject.

Another time-tabled session (three hours) on method in the afternoon. Explain and describe the resources available for teaching history and while making a strong plea for the use of visual material, models and artefacts I am aware that in some schools the textbook is what really matters. Is this another example of the gap between theory and practice?

One of last year's students puts in an appearance. He has opted out of the system by setting up his own "free school" in Bath. It forms part of community centre which has just received £9,000 from the Government's job creation programme.

Interestingly, although the centre caters largely for the West-Indian community in Bath the school, in fact a trust school, has nine white pupils.

Friday

Since my MEd class does not begin until January I have a free day. I spend it doing correspondence, writing references and preparing next week's lecture on the curriculum. I should be using the day for research and writing since education lectures have to conform to the criteria set down for the university academic staff and show evidence of research. We are, after all, doing this version of a Don's diary may read more like a teacher's timetable.

Realities of life and leave at 6.45 pm. A gruelling start to the week.

Tuesday

No class until 11.15 so do some "administration". Without knowing quite what this activity is or how it is assessed, successful performance in it is known to be crucial to a lecturer's promotion prospects and getting through probation and the efficiency bar. The applicants of these academic checks and controls with increasing, if unequal, severity is the cause of much dissension and personal unhappiness among staff.

At 11.15 I take a class of students, from a variety of disciplines, who wish to teach history as a subsidiary subject. I am not too keen on this as I think we should be preparing students for an integrated curriculum though I know that of pupils at present, single subject teaching is the order of the day.

Regret that the university is not the centre of Bath

The morning goes well; the workshop is excellently organized and well equipped and the teachers are concerned that the students, as well as the pupils, learn from the experience. One or two students find it hard to relate to adolescent pupils for such an extended period. But I think the exercise is particularly useful for the students because they gain confidence in handling pupils of this age before confronting them in classes of 30 on teaching practice.

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Grants snub claim by correspondence colleges

by Sue Reid

The Department of Education and Science has been strongly criticized for ignoring the role of Britain's correspondence colleges. It fails to tell students of correspondence learning routes and does not fully inform local education authorities of their grant-awarding powers, according to a report published last week.

Prepared by the Association of British Correspondence Colleges, the report is based on a survey of 62 L.E.A.s in England and Wales. It reveals that in 1974-75 they supported 499 correspondence students, outside the Open University, at a total cost of only £17,000.

It also shows that the 116 English and Welsh education authorities at least 12, including the Inner London Education Authority, Tameside and Harrow, do not give any awards to correspondence students as a matter of policy. Liverpool, Cheshire and Dorset are among authorities who only give grants in exceptional cases to handicapped students.

The report says that the money awarded in 1974-75 for the money lent of financing 11 polytechnic students on full-time courses. It adds: "There is a very uneven distribution of grants throughout the country and, therefore, the price of continuing financial support totally depends on the attitude of a particular education authority towards grant-giving in

the correspondence field."

Disparity between the attitudes of L.E.A.s is harmful to education provision, according to the ABCC. The department should consider its duty and inform the authorities of their powers to award grants under the 1962 Education Act, it says.

Derbyshire L.E.A. spent more than £3,500 on financing 65 correspondence students in 1974-75 while other authorities, including Dudley, Salford, St Helens, Warwickshire, and Bromley, received no applications.

The ABCC is now urging the DES to present a true picture of provision by collecting statistics on the number of correspondence students.

The report says: "We know that in the United Kingdom alone more than 250,000 students study by correspondence but there will be no mention of them in the HMSO publications which aim to present a survey of UK education."

Mr Michael Newell, chairman of ABCC, launching the report this week, said that the correspondence colleges had suffered from time to time by losing students to the Open University. But the fall in numbers had halted and was now steady.

Outlining the cost-effectiveness of correspondence learning at a time of financial stringency he said the price of continuing financial support totally depends on the attitude of a particular education authority towards grant-giving in the correspondence field."

Welfare rise 'saps will'

The growth of the social services has sapped the will of individuals to follow their own consciences, Mr Jo Grimmond, the former Liberal leader, said at Heriot-Watt University last week.

His lecture on "Social Conscience in Britain 1952-77" was the first in a series to mark the Queen's Silver Jubilee.

Today's Samaritan would pass by on the other side of the road from a wounded man because he would argue that it was a case for the Director of Maladjusted Cases, Mr Grimmond said.

He said the director would almost certainly have been attending a conference on the question of socially deprived Samaritans suffering from non-integration, no help would have been forthcoming.

The social services had a debt as well as a credit in the welfare state. They had also failed to develop preventative. They only began to operate when people were already in trouble. Social work must be extended from individual cases to work to prevent those cases arising.

'Soft options only' jibe

The expansion of further and higher education has left many students fit only for the "soft options" in life, a leading Scottish industrialist has said.

Sir William Lithgow, director of the Clydeside shipbuilding firm that bears his name, said national attitudes towards higher education were overlaid with intellectual snobbery.

Further education had indicated an attitude of superiority to the needs of industry.

"It is perhaps inherent in the intellectual incoherence of the academic world that productive industry is thought of as playing an inferior role in society and not recognized as the principal means of support."

Delivering a lecture to the Scottish Technical Education Council, Sir William spoke of the modern age as hypocritical, with more complex about the creation of wealth than the Victorian age. Modern education could cramp initiative and turn people into bureau, cratic fodder, forcing the best to leave the country.

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ENVIRONMENTAL INTERACTION

Psychological Approaches to our Physical Surroundings

Edited by David Canter

The psychological studies of our physical surroundings over the past thirty years are reviewed. The design process, thermal, luminous and spatial environments, buildings in use, living in cities and the natural landscape are examined. The contribution of research in each area is discussed in relation to both psychology and environmental decision making.

Singapore student pleads for asylum

Tan Wah Poo, former president of Singapore University's students' union, is in Britain seeking political asylum after escaping from Singapore where he had been in prison for eight months.

When released he was threatened with national service but managed to escape. He has now been put on the "arrest on sight" list by the Singapore authorities.

Mr Christopher Price, MP for Lewisham, who is supporting Tan's application, said he was the first from someone trying to leave a Commonwealth country.

Numeracy course for technicians

The National Extension College and Yorkshire Television are to launch a multi-media adult numeracy course next autumn. It will aid craft and technician students in home-based education.

The course will respond to research completed by Mrs Ruth Rees of Brunel University, which shows that craft and technician students not only have great difficulties with numeracy, but also with the teaching of it.

The appeal committee hopes to raise a sufficient proportion of the target to enable the student centre to begin studies in October, 1977.

UCL scholarship appeal

University College London has launched an appeal to raise £50,000 for its fourth South African Scholarship. Lord Annan, patron of the college, is patron of the appeal.

Announcing the appeal, the London Evening Standard said the college's tradition of opposition to discrimination and racism in all spheres of life.

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E11.151, biology E9.451, prehistory and anthropology E8.12, geology and meteorology E8.071 and medicine E8.071. Even these figures will not reflect the whole cost of books to an academic or student since they do not cover American imports, which tend to have higher average prices than those published here.

The elements of the price of a new book fall approximately as follows—the proportions varying from book to book:

● Even these limited changes have brought vociferous complaints from those brought up on the idea that quite apart from its content a book should be an object of beauty. Further developments on these lines will depend on the reader being prepared to lower his expectations about the form of the product.

2BC

It is not, as sometimes thought, so much easier to produce a new book in paperback than hardback. The successful, popular paperback firms rely on huge print runs.

ATOL 152BC

2.30 Open Forum—A53: Preparing for
 M909
 5.00 Open Forum—Vacation Lecture 1:
 Are People Predictable? by Dr.
 Stuart Brown, reader in philosophy,
 The Open University.
 There are no other Open University radio
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A wind of change blows from the academic right

The Conservatives have never quite managed to live down John Stuart Mill's description of them as "the stupid party". In marked contrast to the parties of the left, the Tories have traditionally lacked the support of academics and intellectuals. Now, however, this seems to be changing.

A new academic right is emerging to challenge the long-standing supremacy of left wing views among the British intelligentsia. Two years ago John Valsey commented on the current intellectual scene (*Times Educational Supplement*, December 26, 1975): "The trendy lefties who were the apotheosis of the 1960s and early 1970s look like dinosaurs. It now begins to look as though conservatism could be the trendy creed for academics in the late 1970s."

There have always, of course, been some right wing academics and intellectuals. But they have not exactly been thick on the ground, nor conspicuous for their youthfulness. Michael Oakeshott has been the doyen of conservative philosophers for nearly half a century and Maurice Cowling, too, has been a considerable time since the mantle of Herbert Butterfield and established Peterhouse, Cambridge, as something of a stronghold of conservatism.

The last 12 months have seen a dramatic upsurge of academic interest and involvement in right wing causes. A series of advertisements inserted early last year in the *Spectator* by an antiquarian book seller in Eastbourne anxious to set up a study group on major thinkers of the European right with a view to influencing Conservative Party philosophy drew a large number of replies from interested university and polytechnic lecturers and research students.

A highly propagandist book published by Alma of Industry and entitled *Phosphors of Freedom and Enterprise* contained articles by Professor Anthony Flew of Reading, Dr. J. S. Mill as a proponent of liberal capitalism, and John Redwood of the L.S.E. as a proponent of Milton Friedman, alongside pieces by such popular right wing pundits as Peregrine Worsthorne extolling the virtues of free enterprise.

Even more spectacular than the upsurge of academic interest in right wing philosophy is the dramatic increase in academic participation in the actual policy making of the Conservative Party. Lord Blake, the Provost of Queen's College, Oxford, says that until recently he felt himself in the tolerance of an odd man out among academics involved in party politics because he operated within the Conservative Party and not in one of the parties of the left.

He is no longer alone. Last year a group of academics and politicians got together to form a Conservative Philosophy Group. The group, which meets regularly to hear papers delivered by academics, is run by John Casey, an English lecturer at Calver College, Cambridge, and an editor of the *Cambridge Review*, and John Scruton, a philosophy don from Birkbeck College, London. Its aim, says Casey, is to formulate a coherent Conservative political philosophy and counteract the intellectual dominance of the left.

Academics who have extended its meetings include Michael Oakeshott, Richard Griffiths, professor of French at Cardiff, and Henry Wade.

Another academic, Anthony, has been actively involved in the group. Scruton and Casey, both of whom are in their mid-thirties, are currently trying to recruit more young dons to their predominantly Cambridge based group.

While Cambridge looks like becoming the centre for a new academic interest in conservative philosophy, Oxford is predictably exhibiting much more practical matters of Tory policy. This summer a group of young Oxford dons has put out a volume of essays exemplifying the Conservative Party's policies on a whole range of issues.

The idea for the book, entitled *The Conservative Opportunity*, arose out of a discussion of the Oxford Region of the National Association of Conservative Graduates held at



Lord Blake, top, is no longer alone. Professor Anthony Flew is among the new academic right

Hertford College last November. The essays were put together and edited by Lord Blake and John Patten, fellow of Hertford College and the Conservative Parliamentary candidate for the City of Oxford constituency.

The contributors include six young Oxford dons: Eric Barendt, a lawyer at St Catherine's College, Gillian Peale, politics tutor at Lady Margaret Hall and a member of the editorial board of the *Bow Group's* magazine, *Crucible*, John Redwood, a fellow of All Souls and a member of Oxfordshire County Council, Vernon Bogdanor, a politics don, Peter Sinclair, an economist, and Graham Richards, a chemist, all from Brasenose College.

Lord Blake reckons it is significant that the essays in *Conservative Opportunity* were written by young Oxford dons. In a category, as he says, "which for an entire generation was a major source of recruitment to the left". He believes that the sudden upsurge of interest in Conservatism on the part of intellectuals and academics is to be explained partly by the current intellectual sterility of the left, partly in terms of the rejection of the ideological framework established by Beveridge and Keynes and partly by the traumatic effects within the Tory Party itself of the loss of two elections in 1974.

The last time the Conservatives went through a fundamental process of rethinking their philosophy, points out, was after the shock of their 1945 defeat which led to Quintin Hogg's reformulation of party doctrine in "The Conservative Case". Lord Blake feels that the Conservatives are now going through a similar period of fundamental reappraisal and that this gives them a particularly strong appeal to academics many of whom are already worried by the growing contradictions within the left.

"There are signs of a change in the intellectual climate which occur only once or twice in a hundred years, like the triumph of the entrepreneurial ethos in nineteenth-century England, or the rise of Voltairean scepticism in eighteenth-century France. There is a wind of change blowing through Britain and much of the democratic world—and it comes from the right, not the left."

"As yet it is a little early to estimate just how strong the wind is, but it certainly looks as though conservatism is becoming intellectually respectable and we could be witnessing the rise of the academic right."

Ian Bradley

Will Cambridge stick with Homerton or cut the ties?

The future of Homerton College, Cambridge, hangs in the balance. Before Christmas the university must decide whether to strengthen its traditional links with the college or abandon it to an uncertain fate.

A report favoured by Homerton and the university's education department has already been prepared by the council of the senate. It supports a four-year degree in education, which, its advocates claim, would allow students to develop their professional and academic skills to a higher level than the present BEd.

Students would spend the first two years attached to Homerton, which would become an Approved Society of the university, and the second two as members of the university. They would specialize in one subject throughout and would also enrol for the new degree, whereas at present only some choose to do the BEd in a fourth year after completing the Certificate of Education.

Miss Alison Shrubsole, Homerton's principal, argues that the new degree has two main advantages. It includes teaching practice in the fourth year instead of much earlier and it allows study of the curriculum much later in the course when students are in a better position to understand its implications.

Practical work could be combined with academic study in depth. A student training for a primary school work, for example, might undertake a study of reading as part of her dissertation.

Professor Paul Hirst of the department of education is equally enthusiastic. In a paper to the senate he said: "Now is hardly the time for a decrease in the number of teachers who have had the benefits of the kind of education and professional preparation this university can provide."

The education department had benefited considerably from links with Homerton through the BEd degree. Now more specialized teaching opportunities had arisen, as had chances for expanding research, he said.

The outlook about Homerton's future has been clouded by the upheaval in teacher education in the moment the college's students are matriculated and presented by Newnham College, but it feels the need for a more permanent arrangement.

Why should Homerton not do as other colleges associated with the university and seek affiliation elsewhere? Professor Hirst's reply is that Homerton is different. It has long-established links with the university, high academic standing and an institutional structure and status unlike that of many colleges.

Not everyone in the university agrees. Dr George Reid, mathematician and fellow of St John's, is a leading member of an opposition whose concern centres largely round the question of standards. Dr Reid is not convinced that Homerton students can cope with the same final examination papers as undergraduates, especially in mathematics and science. "It is a fact that you cannot teach people with Ds and Es at A level the same way as people with As."

A colleague of his, Dr J. E. Inglesfield, says that the average mark for BEd students in the special physics paper over the past two years is below 50 per cent, a third-class pass.

Homerton's association with the university has been a subject of debate for some time. The Senate of the University of Cambridge has been grappling with the required portions of Plato and Aristotle as well as like many people, he believes that Homerton's association with the university would raise standards still further.

At Homerton students have minimum university entrance qualifications and some turn down offers of places to go there. Professor Hirst is well satisfied with the calibre of the college's BEd candidates.

As for the question of standards, Dr Reid and others point to the fact that the proposals being considered by the senate "turn the BEd into a mere stepping stone to the university."

Technology, attacks them on the ground that they require commitment to teaching right at the start of the course—the very situation James tried to avoid.

"There is no other teacher-training establishment in the country where you do a four-year honours course or nothing. Homerton may be able to attract enough students of the right calibre for this. But what if some want to leave after two years? They will have no qualification at all."

Mr Mumford believes a joint Homerton/CCAT proposal for a BEd course would be entirely feasible but not on the lines of Homerton's present scheme. His Academic Board would be unlikely to agree to any proposal which did not include DPhil and ordinary BEd paths for those unwilling or unable to take the four-year degree course.

Should the attempt to join the university fail some form of merger Homerton will be the only possible solution. Apart from the difficulties over course shape, which Mr Mumford points out, there are other problems about a link between the two.

Mr Mumford agrees with the council of senate report that a link between a voluntary college supported by a direct grant from the DES and a college maintained by a local authority presents "substantial administrative difficulties". But he says they have been overcome in two cases.

He also believes that Homerton could become an independent college, validated by the Council for National Academic Awards, of whose Committee for Education he is a member. He says small and specialized institutions have received CNAA validation, quoting examples the London Bible Institute and Durrington College of Arts.

But many people in the university believe that if the current proposals are turned down in favour of Homerton is bleak. The "poor little Homerton" argument is the one which worries Dr Reid and his supporters most. In his paper Professor Hirst said that if the merger



Aspects of Homerton College.

with the university failed, it would be great pressure on the college to be absorbed into a larger institution, which would involve a transformation of its character.

Miss Shrubsole agrees that a merger would inevitably lead to a distortion of existing courses. It would also make it difficult to preserve the college's status as a small independent institution. The CNAA, she says, has not yet decided the effect of validation on the range of subjects and the Bible Institute and Durrington, hardly comparable to Homerton.

On the question of the BEd, Report she says: "The people have found that it is a course to leave all students in a state of uncertainty as to their prospects."

"Nowadays young people are extremely keen to do what they like, when they like it. This is a qualification which is not a qualification in the eyes of the world, and it is going to be of little importance."

Will the scheme to make Homerton an Approved Society, through? The matter was decided whether to find a way of approving the new education, and the link with Homerton, for a ballot, as is likely to be a vote of all Regent House members.

The council will be taking its deliberations on a recent debate in which the main speakers spoke warmly for the proposals, and also for the decision to give information. Whether, as Dr Reid has said, the university's conservative body keeping their own counsel, or whether they will emerge from their corner against the scheme, remains to be seen.

Frances Gibb reports on the outcome of ten years' excavation in an ancient city

Digging up of Winchester goes into book form

Ten years' archaeological excavations in Winchester will shortly be put into book form in a series of eleven volumes of the archaeological and historical research.

Volume one, *Winchester in the Early Middle Ages*, an edition and revision of the *Winton Domesday*, will be published, like the rest of the series, by the Winchester Research Unit, a body set up to ensure that research would eventually be made available to the public.

The unit grew out of the excavations themselves, a reaction to the massive town development planned for the city during the early 1960s. Martin Biddle, director of the unit, says that no systematic attempt was being made to investigate the city's archaeology and history. "The potential of Winchester in this respect was enormous, but it was a waiting asset. At the beginning of the 1960s one could look forward to a decade's extensive rebuilding; an hotel, reconstruction of the law courts, a project for extending the city council offices, 27 acres of urban renewal and the probability of a new traffic plan."

Faced with the prospect of Winchester's history being destroyed, Mr Biddle had the idea of an excavations committee, which would carry out archaeological excavations and allied historical research in the city, both as a threat and an unthreatened site.

From the start the digs at Winchester were different from those carried out in other cities and were a precedent for a new form of urban excavation. They had two features: first, they dealt with all periods of historical remains. Until then most excavations had concentrated on one period, in particular Roman. Second, they were concerned with the city as a whole. "We were interested in the urban phenomenon: how the city changed, how it waxed and waned and what it offered in different periods," Martin Biddle explained.

The historical research, undertaken by Derek Keane, falls into two parts. The first is related to documents giving evidence about the city in the twelfth century and also around 1300 onwards. The second is a project supported with £20,000 from the SSRC to reconstruct the histories of properties in the later medieval city in terms of what they looked like, what the inhabitants did, and how the patterns represented by the houses, yards and gardens relates to the changing pattern of land use, and the distribution of trades and wealth.

The excavations themselves and categorizing the finds will provide material for other volumes. Mr Biddle's wife, Birche Kjellbye-Biddle, who was in charge of the excavation of the old minster, is writing on its archaeological development through a stratigraphic study of the surviving ruins.

Ms Katherine Barclay, who is categorizing the pottery finds, is writing on the evidence it gives about trade and industry in Winchester. It was partly because of these finds, she says, that the existence of a Roman fort in Winchester during the first century AD was confirmed.

Ms Susan Keane, the conservator, has the task of selecting some 10 per cent of the 20,000 objects (buckets, knives, wood, jewelry) for conservation treatment. She deliberately selects everyday objects as well as art objects: "the art objects were representative only of what the rich people were using."

The bones are dealt with separately because the bulk amounts to as much as the rest of the finds together. The human bones have gone to the British Museum and the animal bones are being sorted in Winchester and studied both for zoological and economic and social evidence.

When the unit has been phased out in 1977 excavation in Winchester will continue under the care of the city rescue archaeologist, Mr. Kenneth Quenemann, who is at present attached to the unit but is an employee of the council. The city development programme has now slowed down but there are still plans in the pipeline, the most celebrated being the motorway.

Martin Biddle is a pragmatist and does not claim that all can be saved: "But we can make informed decisions as to what is best to save," he says. He is also against archaeologists conflicting with town planners. It is up to archaeologists to find out when planning applications are made and if there is to be an excavation, to arrange it before planning starts. "We cannot have archaeologists lying down under bulldozers. It is bad for archaeology and it disrupts schedules, which are as important to them as ours are for us."

Its budget of nearly £150,000 over the whole period came from a variety of sources. The Department of the Environment gave nearly half, Hampshire County Council nearly a fifth, Winchester Corporation 5 per cent and the British Academy 2.5 per cent.

Most of the remaining quarter came from two American universities: North Carolina at Chapel Hill and Duke. In 1964, through the interest of Professor Urban T. Holmes, from North Carolina, an agreement was made by which the two universities provided money and then sent their students every summer for experience of digs.

About 3,000 students from those and other American universities came over the ten years. After four years' digging, there was so much material that publication became impossible without a full-time organization. The Winchester Research Unit, responsible to the excavations committee, was the result, on the lines of similar units abroad, particularly Poland. Until then information from excavations in England had not often been published and so public funds had often been wasted, Martin Biddle explains.

Money was finally obtained for the unit in 1968. It comprised a historian, some research assistants, a conservator, a finds draughtsman and administrative staff, together with a large number of part-time volunteers. Its funding has been divided roughly between the Department of the Environment (39 per cent), the Calouste Gulbenkian Foundation (28 per cent), Hampshire County Council and the Winchester Corporation (each 14 per cent) and others, including the Social Science Research Council and the Leverhulme Trust Fund. When the unit closes in 1977, its cost will have been some £413,000.

With the publication of the volumes, the unit's main work will end. No more "finds" are coming in from the excavations and now it is a case of categorizing, restoring and writing up the finds.

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Excavations at Winchester Cathedral.

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He is also against archaeologists conflicting with town planners. It is up to archaeologists to find out when planning applications are made and if there is to be an excavation, to arrange it before planning starts. "We cannot have archaeologists lying down under bulldozers. It is bad for archaeology and it disrupts schedules, which are as important to them as ours are for us."

The difficulty, according to Mr Biddle, is that public funds cannot be used for what is defined as a "commercial" publication, and the unit has to raise the money from other sources.

The finds, with the records, photographs and drawings, amount to about 10 times the holdings of most city museums and at present Winchester Museum has not room for them all. The finds records are indivisible, Mr Biddle says. "We cannot let the finds go to a museum which cannot provide archive facilities."

The aim is for the museum to provide a resources centre to take the finds and records, but the problem—again—is money. "The Department of the Environment says conservation and museums is not its responsibility. The Department of Education and Science do have responsibility, but do not understand the nature of the responsibility that rescue archaeology puts upon them."

If money is found, he estimates the building could be ready in two and a half years, but in the meantime there is the problem of storage in unsuitable buildings. Martin Biddle argues there needs to be statutory responsibility for museums and archives. "The remains are not an inconsequential and present danger. They are an integral part of the whole operation."

Winchester Studies. Volume one, *Winchester in the early middle ages*, an edition and discussion of the *Winton Domesday* by Frank Barlow, Martin Biddle and D. J. Keane. Clarendon Press. £25 (until December 31; thereafter £32).

228 learned societies with only a cash shortage in common

The recently published survey of the learned societies by a joint committee of the British Academy and the Royal Society reveals a common problem: a shortage of money. The survey, published by the Department of Education and Science, the University Grants Committee and the British Library for money and help in kind.

It is the first such investigation into the existence of many societies, large numbers of which have no permanent staff and no fixed premises. For some the only income is from subscriptions.

What is immediately apparent from the list of 228 societies which responded to a questionnaire from the joint committee is the danger of generalizing about them. The list ranges from the obscure, such as the Historical Society of the Unitarian Royal Society, to the celebrated Linnean Society; from the ancient, such as the Royal Asiatic Society, to the modern Society for Range Planning; from the theoretical, such as the Manchester Literary and Philosophical Society, to the severely practical Institute of Refrigeration.

This great diversity and the proud independence of each society were reflected in their answers to the questionnaire. The report contains a clear list of the societies, but it is clear that there are no many societies for the field is unique, in some other words, particularly perhaps in the biological sciences, there does seem to be a plethora of societies, with dividing lines which seem to be very fine.

The rather negative response to the question on amalgamating societies, that the societies attach great importance to their independence, though there are indications that the societies in the geological field are moving closer together. If indeed in some fields there are rather too many societies, the answer would seem to lie in the direction of co-operation with the graduate development of joint activities leading to the build-up of mutual confidence with federation and perhaps amalgamation as an ultimate goal.

Total membership claimed by the societies touches one million, but these nearly two thirds are in the 21 largest organizations with memberships of more than 10,000. Membership of societies as a whole has grown in the past four years despite the fact that most of them have raised subscriptions at least once in the same period.

At least half the societies have libraries, some of which represent quite extensive collections and many thousands of volumes. They are nearly all publishers in their own right, issuing some 360 periodicals and a range of reports and occasional books.

Publication in fact was one of the societies' greatest concerns. Paper prices and publication costs have risen dramatically. Most societies have a national membership scattered throughout the country so the distribution of periodicals is in individual packets with resulting high costs.

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the fear that membership will decline. Many scientists, for instance, have multiple subscriptions and as prices rise begin to prune their lists. Public and university libraries have reduced budgets and so pick and choose more carefully among periodicals.

The report predicts: "It is to be expected that 'rationalization' within and between educational institutions in the arts area, and the painful choices which face librarians, will lead to the cancellation of many subscriptions, thereby adding yet another twist to the spiralling costs of the learned society publications."

Several schemes are afoot. Under the Royal Society's aegis there have been discussions about using private foundation money for a centre in Notting Hill, to provide offices for a few societies with common premises for lectures, a canteen, "club" facilities and printing equipment. The Royal Geographical Society has considered redevelopment of the site of its building in Kensington.

These schemes involve not only finding a source of capital—at a time when public expenditure does not look like increasing—but also an urgent look at the careers to be offered to the societies' officials. According to the report,

Against this background, the more that can be done, the more likely the message to get through. As a consequence, it was valuable to see what pattern underlies the variability of the response.

This lowering of concern might reflect changes over time; a sense of crisis is hard to sustain for long. On the other hand it might be a result of the measurement process itself, with those who had been interviewed lulled into relative complacency by the thought that something (our research) was being

vid Canter is a lecturer in Psychology and director of the MSc in Environmental psychology at the University of Surrey. Howard Miles is a research fellow in the department of psychology.

While this may have been true at Bristol last March, it is sadly not so at the Aldwych now where *Old World*, Arbuzov's latest offering, will only confirm critics in their view of him as a weepy Terence. Attitudinising of the Steppes and as little likely to suffer for his beliefs as Robert Morley. Despite its Chekhovian overtones, combining surface humour with muted anguish,

Their love—to the amazement of anyone who expects lovers to have things in common—blossoms amid a stage) and her quite inexplicable pretence that her husband has left her for a younger and probably more sensible woman.

This two-character play (worth visit for the virtuoso performances Peggy Ashcroft and Anthony Quayle, which alone make it plausible) moves unevenly from desperate cheerfulness to a form of sentimentality rarely seen in the bolded theatre. For instance,

equivalent in *Old World*, of
e, is Lydia, an Eastern Euro-
trial of patience, whose ex-
ting takes the form of a
up at dawn to read them
y and climbing out of dormi-
windows at dusk to exult in
e. For some reason she thinks
standing in the rain without
mbrella is a sign of youthfulness
and she is, not surprisingly,
the cause of both Rodion's
attacks; she is not cowering; it
plain tiresome.

With a detailed study of one rela-
up the new place looks threat-
aloneside. The starling

In these circumstances, Arbutov's achievement in plays showing that Soviet life is not so ordinary as it seems, and that there are dilemmas, rather than a new morality, is in accord with a new sociality.

He learned his skills in the "straitjacket" of the Central Committee of the Communists that "writers must be passionate propagandists of the seven-year plan and bring to it vigour and energy and vigour of man". On the other hand, Arbutov has lapsed into the old habit of blaming others for doing the latter. In *Old World*, however, he is neither.

number 33 colleges in its report training talks in general terms of the need for shop steward training and in a more practical level contains a statement of intent by the Confederation of British Industry and the TUC that this may give the impression that much has been done for the shop steward in fact a variety of programmes have been provided in many of these have in the past been of activities by individuals and unions, companies, in the latter case stimulated by existing good relations between both.

The education and training in-

For a subject with human behaviour as its subject matter, psychology has been unimaginative in its teaching methods. It is disappointing, for example, for one to self-lecture about theories of learning and thinking which imply that one should not be lecturing.

However, group and individual work on projects have gained in popularity in the UK. So the practice of using the group itself as the object of study.

Textbooks are also changing in response to changing demands on

function. Table 2.

1	Practices in bargaining.
2	Techniques of management.
3	Information about new legisla-
4	tion.
5	General knowledge of trade
6	unionism.
7	To meet other stewards.
8	Wage/price data.
9	The future and for a post-nursing

Those who put a question mark against the present direction of shop stewards' activities can only themselves the products of the earlier system and they have therefore a particular axe to grind. Much earlier educational provision had a positive political content and prime intention was the current concern of the political character of the TTC

References:
Hilgard, R. C. *Psychology*. E. M. Atkinson, Fifth edition. Harcourt Brace, 1972.
Herrnstein, R. W. Brown and Herrnstein. Methuen, 1975.

Peter Herrnstein

The author is a lecturer in psychology at City University and editor of the Methuen Essential Psychology series.

Indeed this Act and other recent legislation (and likely future developments) may well themselves bring fundamental changes in the job of the trade union representative. These will pose problems unless steps are taken soon to speed up the process of preparing trade unionists to play their allotted role within the new set up.

T. P. MacDermott
D. Bright
E. Lawrence
The authors are senior lecturer, lecturer and research assistant respectively in industrial relations at Newcastle Upon Tyne Polytechnic.

NORTH AMERICAN NEWS
MICHAEL BINYON reports from Washington

The Times Higher Education Supplement (London) Room 341
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World scientists set up genetic vetting body

A new international committee to monitor recombinant DNA research and enforce universally accepted safeguards has been set up after a meeting in Washington of the International Council of Scientific Unions (ICSU).

The committee replaces an ad hoc body set up last year after serious concern about genetic engineering had been expressed by scientists throughout the world. It aims to monitor governmental regulations in this field, keep public opinion informed, harmonize national guidelines to ensure proper safety measures and act as a forum for discussion and scientific exchanges in recombinant DNA research.

One of the committee's purposes will be "to take note of the widespread concern over the possible deliberate or inadvertent dispersal of agents constructed by recombinant DNA techniques, to be vigilant regarding such possibilities, and to attempt to foster public discussion of these situations should they arise".

A central archive will be established to store information on sources of technical advice, equipment, and genetic engineering systems and so on. The committee will also maintain a worldwide registry of laboratories engaged in DNA research.

The new body in no way aims to prevent DNA research. Indeed, it will promote the training of biologists in the techniques, creating opportunities for those who do not have access to training programmes at national or regional level.

The new permanent committee, joining the dozens already established, owes much to the efforts of Sir John Kendrew, the British Secretary-General of ICSU. Its 16th general assembly, was held in the National Academy of Sciences, and also adopted resolutions dealing with the free migration of scientists, Chinese participation and a proposal by the Royal Society to strengthen the scientific understanding of agriculture and food production in the world.

Since 1963 ICSU has had a committee on the free circulation of scientists. This hears complaints

Bridging the two cultures gap

Some of the most innovative programmes in the field of humanities are currently being developed at an institution famous for its technical and scientific achievements—the Massachusetts Institute of Technology.

This term MIT has engaged five distinguished professors, who have given up posts at Yale, Amherst, Harvard and Princeton, to become detached members of the relatively small school of humanities.

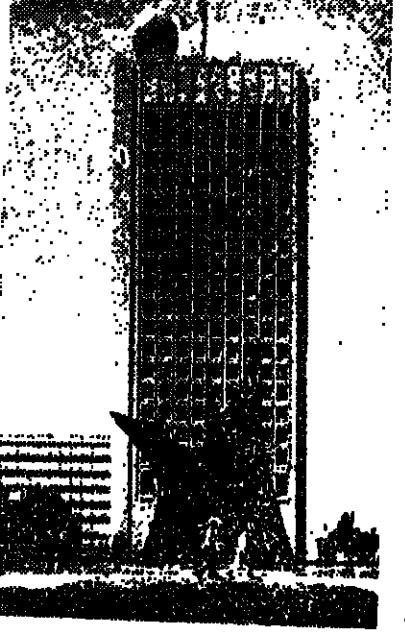
Their job will be to map out areas of intellectual concern different from the traditional humanities divisions. They then will determine what new courses in these fields should be offered, where research is needed and what areas of research are relevant.

MIT has in mind questions such as the responsibility of science, the study of ancient materials, the issues surrounding car safety or cosmic surgery—any area of study at the interface of humanities, science and technology.

Humanities have had a chequered history at MIT. Shortly after the institute was founded, a philosophy department was established in the 1870s; this did not seem strange, as the first generation regarded MIT more as a place for a "modern education" than as a strictly technological institution. From the outset it taught English and foreign languages, but little else in the traditional arts field.

By the 1930s the emphasis was firmly on the scientific approach. The division of humanities was founded in 1932, and after the Second World War the social sciences came into their own. Economics and political science became major departments; linguistics—introduced because of research into suitable computer language—has built up a world reputation under Professor Noam Chomsky.

A MIT committee recommended in 1949 that all undergraduates



Massachusetts Institute of Technology

'Disillusion with tutors' is postgraduates' main problem

Graduate students are often deeply disappointed in their teachers, and suffer from loneliness, anxiety and alienation, according to a two-year survey just published by a California research institute.

Many regard their relations with their professors as the most important part of their education, but they also report that this is the single most disappointing aspect of their graduate experience.

The study, directed by Dr Joseph Katz, professor of human development at the State University of New York at Stony Brook, and Dr Rodney Hartnett, a research psychologist at the Educational Testing Service, found that though postgraduate education had achieved much in the past 100 years, there were still formidable problems.

The study was based on interviews conducted in the Berkeley area and on questionnaires returned by 700 graduates at four American universities.

Among the other findings were:

- The very grading that graduate students receive is likely to make them less fit to be good teachers of undergraduates;
- Women are still discriminated against in graduate education;
- Graduate education is leading to a loss of interest in formerly "serious" research areas;
- Departmental reputation is not necessarily synonymous with educational quality. Extended definitions of quality and of how it is to be measured are necessary;
- The study was done at the Wright Institute, a private research body which concentrates on studies promoting social change. It is being published under the title: *Scholar's Graduate and Professional Students* by Ballinger Publishing Co., Cambridge, Mass. 02138.

One to one tuition... Saudi-style

What is probably the world's most expensive open university option just begun at the University of Houston. It is a special one-year course in psychology, Princess Rima, niece of King of Saudi Arabia. She began studies last week.

Saudi royal family was very reluctant to allow an 18-year-old married princess to be unchaperoned in the halls of higher education. And she could join the 6,000 or so students in the quickly suppressed American monasteries.

But Princess Rima was persuaded and last spring her father took her to a rich Texas oilman's package with Houston, which is adapting its open university course modelled on Britain's Open University, to the demands and traditions of Saudi royalty.

Two lecturers, books, film, tapes and other educational materials have been flown out to the palace in Riyadh. As instructed, with a place in the women's quarters, Saudis insisted on women teachers. They will be provided with off the palace grounds and four, since women are not to drive cars in Saudi Arabia.

The princess's programme includes English, mathematics, psychology and literature, for which she can earn up to 31 hours credit a year. Her cost has not been revealed, is renewable next year.

Year begins amid threats of widespread unrest

from Guy Neave

PARIS

Last week 825,000 students returned to higher education—2 per cent more than in the academic year 1975-76. More students are choosing to continue their studies rather than risk the hazards of an uncertain labour market. Yet an examination of this year's subject choices shows interesting trends. The rush into pharmacy seems to have dropped away. In Paris, for example, enrolments have fallen by 10 per cent in this subject. While medicine and sciences appear to have flourished, the humanities have still managed to increase their numbers. In Paris, 124,050 students will enrol in humanities courses compared with 117,900 last academic year.

Increase in enrolment or no, the university term has got under way on a somewhat sour note. There is, for instance, the problem of examinations interrupted by the student strikes and disruptions of last spring over the reforms of the second cycle of studies. Some students returned early to resist them in September. Others are already attending lectures to make up for lost credits, without which admission to a second and third year courses is barred.

The students return to a university sector locked in battle with Mme Alice Saunier-Seïte, Secretary of State for Higher Education. It is an unenviable, often contradictory and certainly a most ungalant task. Alternately accused of headless authoritarianism by some, Mme Saunier-Seïte is seen as lacking in initiative by others. To some hers is a policy of outrageous conservatism bent on subordinating academic to the brutal vocationalism of industry. To others, she has no policy at all. No academic year—not even 1968-9—has opened in such an uneasy atmosphere.

It is scarcely surprising, therefore, that an all-party conference held last week by the governing councils of the IUTs. Composed of teachers, administrators and local industrialists, they recently called on Mme Saunier-Seïte to protect the IUTs from hasty and ill-considered decisions of her department.

Such reaction was predictable. More unusual has been the attitude of the governing councils of the IUTs. Composed of teachers, administrators and local industrialists, they recently called on Mme Saunier-Seïte to protect the IUTs from hasty and ill-considered decisions of her department.

Campus in search of an identity

John Horgan reports from Limerick on Ireland's controversy-dogged technological showpiece that wanted to be a university



The National Institute of Higher Education: losing the 'apron string' image

LIMERICK

The Republic's National Institute of Higher Education in Limerick—designed to be a pacemaker for technological education at third level throughout the country when it was first opened in 1972—began its fifth year last month battered by almost eight months of continuous controversy and with no more than 70 per cent of its projected total enrolment for this stage of its development.

This gloomy picture, however, is not the complete one: most of the problems have now been or are being solved, and the institute is looking forward both to a new relationship with the Department of Education via the Higher Education Authority and to the expected appearance of a Higher Education Bill, which will give it an official statutory basis for its operations. Instead of the ad-hoc arrangements under which it has functioned since its inception. But for the director, Dr Edward Walsh, and his staff, there has been a difficult and protracted birth.

Even the circumstances surrounding the original decision to set up the institute were controversial. Vocal students for local interests in Limerick, the Republic's third largest city, had been demanding a university of their own for years. They were not visibly mollified when they were told by Dublin that the NIHE would be "better than a university".

Mr Richard Burke, Minister for Education, once created a minor sensation by telling a press conference that he saw no reason why the NIHE should not eventually achieve the status of a full university. Some time afterwards he had to back a Cabinet decision which tied the NIHE firmly to the apron strings of University College, Cork, as a "recognized college": at that stage the progression to university status was reduced to the rank of a faint hope, solved by a compromise which would allow successful candidates honours after an additional term's reading—without residence requirements—and the appropriate extra examinations.

More significantly, perhaps, the NIHE relationship with UCC is being terminated, and it is embarking on a new one as an associated college of University College, Galway. This already seems to have got off to a good start and is enhanced by a high degree of mutual understanding.

Course structure and enrolment patterns in the NIHE provide a graphic illustration of the problems confronting any third-level institution in the Republic, especially in a technologically advanced area. One of the problems is the pronounced academic bias at second level which is still exactly the obverse of contemporary British and European trends. "Europe" was in fact the NIHE's basic theme by the 1972.

The five main interdisciplinary areas—for which an attractive and successful module system has been developed—are engineering, electronics, administrative systems, business studies and European studies. Engineering, where the employment record of graduates last year ran at 100 per cent, is by no means as popular as "business studies" or even European studies. The comparative unpopularity of administrative systems is put down by the NIHE authorities to a widespread ignorance of the employment potential.

Again, a massive 77 per cent of this year's intake come from the academic secondary schools, and only 8 per cent from the vocational sector. This is a gratifyingly unbalanced picture towards the engineering area. Only a few students have so far come into the NIHE from the regional technical colleges—for which the NIHE was originally seen as a natural "top"—but the quality of these entrants has been good. Some 38 per cent of the intake are on grants or scholarships, which is slightly above the comparable university figure.

Dr Walsh sees the future development of the NIHE as being more in terms of providing new courses (for which the modular system is particularly adaptable) than in indefinitely expanding the existing ones. In addition, he is thinking of breaking new ground in the certificate and post-graduate areas.

In relation to the former, where the NIHE qualifications will continue to be validated by the NCEA, considerable progress has been made in certificates in electronics, computer engineering and social work. At postgraduate level, he sees a compelling need to do something for the hundreds of people who are leaving universities with arts degrees, a substantial potential and undeservedly low employability.

He has also begun an exciting experiment linking the NIHE engineering and industrial area with the National College of Art and Design in Dublin in a joint degree-level course which will involve students living in Limerick as well as in Dublin for part of their course.

Dr Walsh is not dismayed by the hush of the past year which has compromised the NIHE's development. It is already probably the most highly capitalized third level institution in the Republic, thanks in large part to substantial World Bank loan funding. It boasts some equipment—including, for example, an electron microscope—which any Irish university would give its eye teeth for. Its engineering areas, designed by the same team which built many factories for the Republic's Industrial Development Authority, are replete with production systems in miniature, from shop floor to upper administrative level.

Options being canvassed at the moment include possible degree work in energy technology, in chemical technology and in environmental engineering. As well as this, the NIHE has, together with the banking sector, for example, developed a number of self-funding programmes in the administrative system.

It also has a substantial potential for the construction industry, but this must await rationalization between the NIHE and the technological college near by run by the Limerick Vocational Educational Committee at Moylish; eventually all third-level work in this area will be done on one campus.

The communications problems between the NIHE hierarchy and the Department of Education, especially over funding and staff appointments, have undoubtedly led to problems of staff morale, but Dr Walsh is confident that the new arrangements under which his funding will be routed via the HRA will improve matters.

It is, however, possible that preferential funding may be more difficult to argue against the universities, who are also under the HRA umbrella, and that the HRA may insist on fairly stringent rationalization of capital investment. The same sort of effect may make it difficult for the NIHE to reduce its staff-student ratio from its present 15:1 to a hoped-for 12:1.

If the last year has seen a certain polarization about the NIHE, its director is confident: "The polarization is not so much between those who have been put off by all the bad publicity, and those who have experienced the NIHE for themselves, or whose friends or relatives have proved its worth for them," he says.

Toronto calls for checks on standards of school-leavers

The University of Toronto, with 45,000 students, the largest in Canada, is so worried by the increasing number of students who are failing to meet the standards of school-leavers that it has set up a committee to investigate the problem.

The committee's report says that school-leaving standards are now so low that many students who are admitted to the university are not prepared for the rigour of university-level work.

The report, now being discussed by the university, will probably be adopted, although not enforced for at least two years.

The significance of the recommendations coming from the committee is that they do from Canada's largest university, and one of the most influential, profound. They clearly articulate the growing disenchantment in Canadian academic circles with the "liberal" education in education in the late 1960s and the mounting worry over academic standards. Other universities may now follow suit.

Laval strike talks reopen

The strike of teachers at Laval University has now entered its eighth week, and the entire university in Quebec City remains closed. Negotiations have begun again, but no solution has yet been found.

At issue is the question of the power of the administration to determine the number of appointments and the level of the academic staff.

Experimental polys said to be 'apeing universities'

from Mike Duckenfield

STOCKHOLM

Fears that the regional college alternatives to traditional degrees—known as "polytechnics"—are becoming second-class universities have been voiced in a report by the Science and Humanities Research Council.

The 160-page report by the Council's Institute for Studies in Research and Higher Education says that, regardless of the curriculum, student enrolment, course design and research point to an "academic drift" similar to that experienced by Britain's polytechnics.

It criticizes the colleges of which eight of the projected 17 are now open for not fulfilling their promise of offering a mixture of vocational and academic studies, and giving priority to inter-disciplinary and recurrent education.

The colleges, first launched experimentally in 1969, were designed to offer a mixture of basic university courses and mainly two-year vocational courses carrying credit enabling later transfer to degree courses at the universities.

Established partly to promote decentralization and partly to relieve pressure on the universities, the numbers during the 1960s, the colleges currently have about 4,000 students. However, they are expected to account for the bulk of the 25,000 new places in higher education to be created during the next 15 years.

The report argues that the government's failure to make clear how the colleges are to be governed, and how they are to be funded, has led to a situation where the colleges are "apeing universities" rather than being vocational institutions.

No joy for gays

Stanford University has refused to administer a proposed special scholarship fund for homosexual students. The offer was made to the university by the Gay People's Union.

Stanford has some further to go in giving commitment to its gay students. It would not allow firms to discriminate against homosexuals in the workplace, but it has no policy on the issue of sexual orientation in the workplace.

Lord Crowther Hunt, the Isaiah of manpower planning, was easy to respect and to dislike. He is more difficult to dismiss lightly than his message of that avuncular Mossiah, Mr. Callaghan. Of course, the Prime Minister's criticism of the shortcomings of education, and of higher education, was not expressed in the naive and even gauche terms of the Isaiah of Crowther Hunt. That, after all, is the difference between someone plucked from the common rooms of Oxford and someone who has spent a generation in the hardy pursuit of politics. But the Isaiah's message was, if anything, more congenial to educators (and to less congenial to educators (and to universities?). Universities, colleges, and schools have failed the nation by not producing the graduates and school-leavers required by productive industry, and by inculcating a distaste for its uses, in particular for the profit motive. They must share some of the responsibility for our comparative, national decline.

The two charges are often confusingly combined but must be analysed separately. It may be true that the rate of higher education has bred in our graduates reluctance to make a career in private industry. Many working in polytechnics and universities, particularly the former colleges of advanced technology, would of course say that, if they would point to the rapid expansion of business management and business courses, and the continuing commitment to industrial practice in the schools of engineering and similar experiments.

But even if the charge is true, it is hardly more than a reflection of the discreet contention that the dominant classes in British society are additionally have felt for "trade" at two centuries or more. It would be a fair charge against institutions of higher education that have not been infected by these sentiments, particularly as they so often serve the under side upon aspiring members of the working class climb. A slightly aloof attitude to "trade" might indeed be a defining characteristic of this embourgeoisement. Too much consideration of these social, quasi-philosophical issues would probably vain. Much more to the point is the other down-to-earth charge that higher education is failing to produce the graduates that productive industry needs. Here there is at the best not proven. There is simply no evidence that industry has a large number of vacancies for scientists and technologists at

present. Indeed the admittedly large influx of graduates into public employment in recent years was to a considerable extent made inevitable by the instability of a depressed private economy for them.

Many argue that the difficulty is caused not by the quantity of graduates seeking careers in industry which is nearly satisfactory—but by their quality—which is much less so. One suggestion to improve their quality is to offer students studying science and particularly technology, higher grants. I hope that more able sixth-formers will be attracted to these subjects. In present circumstances this would work for at least four reasons: universities and polytechnics are already scraping the barrel of acceptable applicants in these subjects; there is no supply of sixth-formers studying the appropriate A levels to be attracted by differential grants; differential grants would introduce a new and entirely unproductive divisiveness into higher education; and there is absolutely no guarantee that the increased number of scientists and technologists would find it easy to obtain satisfactory jobs when they graduated.

Differential grants would do nothing to improve relations between higher education and industry. They would be much more likely to make matters worse. Nor will a judicious mixture of patriotic appeals and not-so-subtle threats from the Government have much effect. A much more positive and thorough policy is necessary. The Government should consider urgently whether it is possible to enhance the existing centres of excellence in scientific and technological education, perhaps by allowing them more generous funds, and to create new ones. Specialized institutions, such as Cranfield or the London University too peripheral a place in British higher education. The contrast with the status of higher education in France, or the Soviet Union, is striking. There, there is not the same distaste for specialization. Without going to the technocratic extremes of these two countries, there is scope for a concentration of excellence in science and technology which will not only enhance the skills of graduates in these subjects but raise the status of the institutions in which they were educated—to the mutual benefit of higher education and industry.

The past few years have not been kind to the Science Research Council. A concerted attempt to shift its priorities from the applied science has coincided with increasing cutbacks in Government expenditure, and cost-cutting moves towards international collaboration. International scientific projects have multiply compounded its financial problems: the value of the pound has declined.

Further cuts in the SRC's budget no longer provoke either the headlines or the headlines that have greeted scientists' last year's year ago. Yet there are now indications of a schism on the council's future. Its existence is casting doubt on its ability to raise the £6.5 million allocated to it by Parliament.

If the SRC is forced into a situation where it finds itself unable to honour its responsibilities—the possibility of having to renegotiate the treaties that determine its involvement in international organizations such as the European Organization for Nuclear Research (CERN)—is also being discussed: then the future of the SRC for which the Government is equally responsible.

In the light of the current financial situation, the council is not necessarily wrong in reducing its commitment to expensive areas of research such as high energy physics. Nor has science suffered unfairly compared to other areas of public expenditure. What can be questioned, however, is the extent

to which the pressure of ever-increasing reductions in future expenditure are threatening some physicists have put it, to turn a disciplined withdrawal into a rout.

In many cases the decisions have been effectively taken out of the council's hands. Thus Britain's future participation in CERN is now threatened by a Treasury decision about whether to provide the council with the full £5,750,000 commitment required to cover the increased costs of its international participation (that was £3.8 million in 1968). The President of the Royal Society, Lord Rutherford, has urged Britain's participation in the vetoed British CERN, a decision taken after the project had been re-evaluated.

The present situation therefore raises two fundamental issues about the way Britain does its science, each of which needs to be faced directly.

The first is that the Government has a responsibility to ensure that further reductions in the science budget remain compatible with a rational research policy, and do not degenerate into a rag-bag of ad hoc measures of expediency or of benefit to the Government or the community.

The second is that the Government has a responsibility to ensure that the science policy is not so heavily influenced by Treasury but that it is a responsible public policy, one that is consistent with the interests of the scientific community.

Paying for research

Sir.—Brian Salter (*THES.* October 1) and Daphne Johnson (*THES.* October 15) have pointed out the too frequently ignored personal and managerial problems of the researcher on short term contracts. But consider also the effects of the forms of funding and employment on the kind of research which is undertaken in institutions of higher education.

I would be more concerned than Brian Salter with applied research, particularly in social policy and administration. Policymakers, managers and administrators need research which, whilst being technically and epistemologically reasonable, justifies itself primarily by its usefulness in informing and improving public institutions. If research which can be justified on these grounds, whether as monitoring or guidance, has to be compromised with the demands of academic substance if the researchers themselves are to stay in work.

from Mr Peter Thomason

Sir,—David Martin in a recent article on free thought and authoritarianism makes comments on various religions including the Church of Scientology.

Notwithstanding Professor Martin's erudite if somewhat convoluted reasoning, the historical reality is that "no culture in the history of the world save the thoroughly depraved and expiring ones has failed to affirm the existence of a supreme being . . . a government wishing to deprave its people to the point where they will accept the most perfidious and rotten acts abolishes first the concept of God". (L. Ron Hubbard).

I would suggest that the dialectics of authoritarianism are of minor importance compared to the necessity for establishing a correct identity for man as a spiritual being. This is what Professor Martin ignores and why his article brings us no nearer a resolution of the problems of the human spirit.

Yours sincerely,
PETER THOMPSON,
Director of Public Affairs,
Church of Scientology.

from Mrs Shirley Moredoun

Sir,—As difficult as is the student housing position for universities **THESE**, October 22), those attending polytechnic suffer in this respect, as in many others, far worse.

polytechnics, responsible to different local authorities, have widely different housing policies and few even have a commitment to assistance with student housing. Simply provide a one-man accommodation office which can coordinate requests from a face-saving committee. The fact that housing is a necessary part of the total resources of the educational institution, thus blinding themselves to the undoubted connexion between low recruitment where residential facilities do not exist and academic failure due to poor housing.

Mr. Callaghan wishes to encourage more science, vocational and technology students, than he might consider the almost nonexistent housing aid to polytechnic students as an area worth developing in the total educational package. The housing of students should not be an afterthought. It is integral to all educational planning.

polytechnics are the poor cousins of the educational system. When it comes to the provision of student housing by polytechnics, we are in the class of the Third World.

Four.

HIRLEY MEREDEN,
Accommodation officer,
Polytechnic of North London.

From Mr Stephen P. Munro
Sir—

the budget of Mr. P...
Ministry of Overseas Development has not been affected by undue reduction but I am wondering if it is not time for it to revise its policies in respect of British teachers serving in the foreign countries.

Twelve years ago when the expansion of secondary education in this country made imperative the recruiting of British teachers, to whom the Ministry of Overseas Development paid substantial salaries and supplements. Today there is an adequate supply of secondary school teachers in Zambia, particularly in history, geography, and English.

What this country needs, however, is a supply of highly qualified technicians and university lecturers. The presence of teachers with nothing more than a degree or a teacher's diploma is hardly needed for the following reasons:

First their qualifications: most degree with or without DipEd) are hardly adequate for lecturers in teachers' colleges earning a total salary of £6,130 (approximately £4,000 per annum) plus a tax-free supplement of £4,000 per annum paid leave, children's educational allowances and a 25 per cent gratuity at the end of a three-year contract. The total emolument earned by such a teacher is in the region of £10,000, which is less than the salary of a university professor in Britain.

Secondly, as such high salaries encourage the removal of teachers and the protracted presence of such teachers (most of them citizens of the Irish Republic) the opportunity of promotion to senior posts for Zambians with the same or even better qualifications is minimal. The fact that the expected total emoluments are nearly six times those of a Zambian teacher encourage a good relationship on a professional level.

If the Ministry of Development is really interested in helping developing countries like Zambia, the obvious solution is to discontinue the subsidy to British teachers (the local salaries are quite adequate) and use the

average £4,000 spent in subsidy to fund a training scheme of post-graduate work for graduate Gambian teachers. The amount in one year's subsidy (approximately £4,000) is quite adequate to support study in Britain for Gambian working on a MA or BA degree.

achieving the Zambianization of
education and maintain at the same

ne a permanent link of con-
onal cooperation with Zambia
something that the expatriate
teacher will never be able to do
his presence in the country
ly a temporary one.
ours sincerely,
STEPHEN P. MWANSA,
ractor,
offat Teachers' College,
renje,
mbia.

Mr. C. A. Horn

During the past weeks, evidence has taken place concerning the revision of engineering education. Many accept the need for one-year courses in this subject. It is to be the case a thorough revision of aims is necessary. At the moment engineering education is designed to do two things: to impart to the student the knowledge and the techniques necessary to enable him to maintain the production process and to produce the technical advisers who can answer the questions of management.

any new scheme should provide for the training of technologists competent to be managers. In these circumstances the extra time should be devoted to management is far more important than the technological education is for the technologists. It is an important subject to be left to the technologists.

Yours faithfully,
A. HORN,
Head of department of Management
Social Sciences,
Imperial Polytechnic.

... 11/10/55 page 1

Thirty-five years the rate of growth of the nation's demands has exceeded the rate of growth of its output. Unless productivity and output increase, the nation's standard of living must be lowered, and in an egalitarian world universities are likely to be called on to carry more than their share of the burden. With inescapable cost increases (and rising prices for essentials such as heat, light and maintenance, very large price increases for books and equipment) and more expensive equipment and facilities (and research) unit cost limits imposed

A severe enough decline: the UGC's latest circular implying a 4 per cent reduction in real terms in 1977-78 throws into even starker relief the effective loss of academic pay.

Leaving aside the immediate problems (which for some institutions may be insurmountable) there appears to be a number of possible responses. Among these are a reduction in staff-student ratios, introduction of a four-term year, and training educators by educational technology.

The effects of fragmentation of society are perhaps less obvious, but not less significant for that. Even before the Industrial Relations Act imposed employment and dismissal procedures on universities as elsewhere, towards unionization and unionist-style militancy was evident. Not merely are redundancy procedures, collective bargaining, consultative committees, grievance procedures now the norm for academic as well as non-academic

There is no God-given ratio diverging from which would be needlessly extravagant or excessively demanding, and an appropriate ratio would be likely to emerge from methods (about which we still know much too little), teaching aids, and subjects to subject. But there would be some points at which it would become impossible to maintain both the standard and the length of the three-year undergraduate degree, a shorter first degree would be in almost every other subject than in the natural sciences.

The four-term year, much discussed a few years ago, was shown then to be effectively destructive of all major research, unless extra staff were employed and so savings were confined to more efficient use of financial resources. But even then a four-term year would have serious implications for postgraduate supervision and research, which of course continues through the summers (the laboratory sciences would be most severely affected), and would abruptly curtail the range of activities of universities—the provision of usually short and intensive refresher or post-experience or “footing-up” courses during the summer vacation. This too would be a blow on society in holding back the already too slow production of innovation in productive enterprise.

In the longer term, however, it seems to me that stratified resources would impose a shift from labour-intensive education to knowledge-intensive education. Knowledge demands and makes possible ever more complex, competent and expensive machinery. The knowledge explosion is reflected in the widening of the knowledge base. The UGC subcommittee's notion of the "self-enriching" library and the Computer Board's concentration on regional computing centres and linked networks surely establish the trend. The knowledge explosion is also reflected in the growth of retrieval systems, visual displays, and the use of computers in humane concern, and the personal insecurity of the young in a fluid society, lead to questioning of the authority of the state. The state may then open to manipulation by a tiny core of political militants. This decay is, however, a natural part of the process. The state is a violent notion: ideas of industrial democracy, of management versus workers-of us-them divides, are assiduously fostered; and more and more time has to be devoted to the human conflict. The state is a judicial or personal problem.

The ordinary academic is neither equipped nor not desirous of spending

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

ing time on such matters, so professionalized administration grows, and senior officers of the university are not only increasingly seen as being remote and separate, but in fact have to devote excessive attention to these management problems at the expense of the academic leadership which they should properly give. The participating role of the academic in the government of his institution reduces towards zero, so he becomes frustrated or withdrawn, and the social cohesion of the community suffers.

What becomes of the functions of the universities? The pressure of the society paymaster for useful concrete packages will ensure the conservative character of the universities. Individuals to develop skills but may leave less room for the intellectual, the aesthetic and the ethical—these are likely to be further placed under the pressure of the paymaster institutions. Pressure on resources may well make transmission of knowledge more cost-effective, but knowledge is transmitted more by the relation of the performer to the known tasks than to understanding the methods of devising solutions to as yet unknown problems, or to the questions that need to be asked. The mounting costs of research are likely to place it out of reach of more than a few favoured institutions, and to favour sectors within institutions.

All of this would be of unmeasurable value and consequence not only for underdeveloped countries but for society as a whole. It is a task which must be solved in the near future. However, which seem to me the most important, are:

A prime characteristic of so-called "developed" societies is a seeming "inextinguishable" advance in man's ability to control the development of his own society. This advance in his ability to remain in control of the change of the processes throughout the society, which that control is operated, under such conditions the maintaining of an equilibrium is not possible. The process of evolution, the raising of fundamental questions about assumed ways of handling problems, moral, medical, material, technological, the making of decisions, is not possible (not of course ensuring the maintenance of the equilibrium).

sense of ability to make own choices is not submerged—these are functions of crucial importance. Their performance requires the nurturing of an elite of creative and critical intelligence, institutions of independence from external control (shielding them from interference of enquiry), and self-conscious internal government not crudely mirroring developments in society. Of necessity it involves tension between society and the universities. But this is not an ivory tower concept, not a pursuit of knowledge for its own sake. It is to ensure that it is the use of knowledge and autonomy in order to make possible the discharging of a profound social responsibility.

To what extent universities as presently exist, can, or do perform this role, maybe matter for argument. My contention is that they are moving and being moved away from any possibility of performing it. But where else it may be performed in Britain if not in universities I do not see; and a society in which performance of this role goes by default is on the road to death.

Philip Reynolds
The author is pro vice-chancellor
and professor of politics at the
University of Lancaster

... ..

Abstract



Prentice-Hall International
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BOOKS

Discussing moral issues

Experience and Conduct—A Philosophical Enquiry into Practical Thinking by Stephan Körner
Cambridge University Press, £8.50
ISBN 0 521 21075 5

Law and Morality—A Reader edited by Louis Blom-Cooper and Gavin Drewry
Duckworth, £2.50
ISBN 0 7156 0804 5

It is difficult, distressingly difficult, to give any sort of general account of Professor Körner's essay on *Experience and Conduct*. In part, this is because it resists rapid summary in much the same way that any piece of patient and detailed analysis resists summary; and this is no bad thing, in as far as it sends readers to Körner's book rather than to a second-hand account of it. But it would be a pity if one failed to convey the curious intellectual charm of Körner's book. It is a curious charm, in that one does not expect to be charmed by anything so rigidly analytical in intention as this essay is, and particularly not by a piece of moral philosophy which begins with the formal theory of probability and the merits of alternative systems of deontic logic; and it is certainly an intellectual charm, because it springs from the way in which Körner seems to scrutinize logical and conceptual distinctions almost as if they are visual or tactile phenomena which it takes particularly careful scrutiny to make out. The charm is different, but the manner is reminiscent of Moore's wide-eyed inquiry into just what things were good in the last part of *Principia Ethica*.

Experience and Conduct is, for the most part, an essay in what Körner calls "exhibition analysis": what is exhibited is "the general structure of systems of practical attitudes" and "specific aspects and kinds of practical thinking". Since practical thinking is directed towards the bringing about of changes in the course of nature, and in the assessment and evaluation of the changes which we or others bring about, Körner starts with the problems of the formulation of a deontic logic and a calculus of probability which will allow us to formalize rational choice according to principles of morality or law, and to analyse our intuitive sense of the importance of the stratification of attitudes (such as the obvious phenomenon of the person who wants to smoke but wishes he didn't want to). The distinction between attitudes as such and principles in the sense in which moral philosophers and others have been concerned with them is largely made in terms of the requirement that a principle apply to everyone—although the name of Kant only occurs in passing, and that of R. M. Hare, in all, there would not be much exaggeration in claiming that *Experience and Conduct* is largely a dialogue with the view of practical rationality which they represent.

The logical preliminaries over—and Körner encourages his readers to treat them as preliminaries, or indeed to skip them altogether if

they feel inclined to—the book proceeds to analyse the nature of moral judgment, the possibility of a purely heuristic assumption about the morality of particular actions, and so on. To pick out a couple of Körner's more dubious claims is a little unkind, but they may serve to illustrate the sort of case he is making.

One continuous difficulty with what he says is that it is never quite clear just how powerful a weapon against bad behaviour he thinks the eliciting of self-contradiction to be. That is, Körner certainly thinks that being moral, or acting on principle, is a form of rationality; and he seems to say when he discusses the differences between prudential and morally selfish behaviour, that what makes prudential "reasonable self-love" as Bishop Butler called it—is its being circumscribed by morality. Thus, on Körner's account of it, there cannot be such a person as a prudent murderer, and it seems that his non-prudence is a sort of irrationality, precisely because immorality is a sort of irrationality. But I can see nothing in the book which shows anything of the sort. Of course, prudence involves something of the sort: of reflective distance on one's desires, and the morality does, and an irrational man is not a prudent man—indeed, extreme imprudence is usually what induces one's relatives to have one put away.

But, this does not show that it is the immorality of the goal which makes an action irrational and hence not prudent; it makes perfectly good sense to say that one murderer was prudent and that one not, that one laid careful plans to avoid detection and arrest, while the other rushed upon his victim and was so carried away by his emotions that he did not stop to think that he was surrounded by police and certain to be caught.

Again, in his discussion of justice, Körner begins with the plausible view that justice is concerned with establishing certain sorts of treatment for the practical interests of the members of a society; he then says very plausibly, that this bare account would fill out with an analysis of different views of what practical interests men have, and of what obligation we are under to try to get these treated justly. But when he embarks on this he says some rather less persuasive things. One of these is his claim *a propos* of Rawls's attempt to derive principles of justice from an original contract, that what is wrong with trying to derive justice from fairness is that some contracts can be fairly run but be wicked non the less; and the instance cited is Russian roulette. But, as a thrust at Rawls, this is misplaced, because it underestimates the importance of rational reasons in the Rawlsian system—contracts which pursue minimax strategies in conditions which do not (as every critic has noticed since 1957) require anything so cautious, will not anticipate getting a buzz out of Russian roulette.

And one's fears that Körner has misread the whole contractualist theory are not allayed when he goes

on to suggest that Plato's theory of the cobbler's shoes is a "compatible with political society" and that reason why their consent to justice are so different from the moral element of justice, is that the moral element is crucially different from the belief, as Rawls does say, that nature has a niche for each creature of our kind can have money. The Platonic vision is short-sighted, and it is not prudent, ignorant individuals to pursue by way of a state securing their unknown future.

Experience and Conduct is a sober black jacket, and it is encumbered with examples of everyday life. The author's *Law and Morality* is a more intellectual and even more sober black jacket, and it is encumbered with examples of everyday life. The author's *Law and Morality* is a more intellectual and even more sober black jacket, and it is encumbered with examples of everyday life.

Professor Crick, stop it. The supply more useful material. Each of the chapters, like historical background or readers will lack.

But it is the selection of the book—a volume of Hegelian in type and in impression was that the book has been plucked and the book alone left behind. Blackwell's that suicide was an attempt at God in "invading the realm of the Almighty and robbing of his immediate presence." "It is a nice piece of comic and Lord Goddard's moral capital punishment provides a thing like black comedy. It ends on a light note with a wood finding herself a play of sleep after watching a play of Council of Love, in which it appeared as a screaming and the BVM as a voyeur. It is also reminded that the people writing to the Times about Thorsen were three whole years of frivolous note. The usefulness of this collection is even more than its entertainment value. Its editors are to be congratulated on a workmanlike as well as spirited job.

Alan Ry

A scholarly dissertation

On the Shape of Space by Graham Nerlich
Cambridge University Press, £8.50
ISBN 0 521 21075 5

The first reaction of a reader to this latest volume in Routledge's series *The Arguments of the Philosophers* is one of heartfelt sympathy for the author. At the time the book was commissioned having produced over the years a philosophical texts in workshop-like and inexpensive editions. The first volume of this series, *Godwin's*, was a handsome book in the tradition of the publishers have capitulated to offer us instead of a printed book a reproduction of an unjustified book and minuscule typescript. The reader works through the book with an odd, familiar feeling of

publication. On this second volume an examiner might have said: "The dissertation contains much that is true about Wittgenstein's work, but it is more than once tedious and usually with a great deal of falsehood than the truth." If the words "dissertation" were to offer to a seasoned student of Wittgenstein, it is in the other rather than the field. Its most serious flaw is that it almost entirely ignores the middle works of Wittgenstein which have been several years. Indeed, in several places it is a slightly rusty flavour. The text as it had been written in 1968 and left in a drawer since then. For these reasons, the book would, I think, be a waste of money. But after all, it hasn't really been published, not as you and I stand publishing.

Considered as a dissertation for examination the candidate fully deserves to succeed. He is a highly intelligent philosopher who has studied Wittgenstein's best-known works with great care, his interpretation and critical judgments are pressed with economy and elegance. He offers us almost a by-line commentary on the *Tractatus* and *Investigations* with a rather appendix-like chapter on the philosophy of mathematics. Only when he comes to dealing with the private language argument does he lose the awareness of his grip. But overall the dissertation is meticulous, scholarly and philosophically accurate.

Examiners are often asked, not only whether a dissertation deserves a doctorate, but whether it deserves

BOOKS

Vichian themes

Gianbattista Vico's Science of Humanity edited by Giorgio Tagliacozzo and Donald Phillip Verene
The Johns Hopkins University Press, £10.75
ISBN 0 8018 1720 X

This companion to *Gianbattista Vico: An International Symposium* (1969) consists of 28 essays by well-known European and North American scholars on the intricacies and ramifications of Vico's thought.

A good many of the essays are examinations of "Vico and X", where X is variously Kant, Marx, Dilthey, Joyce, Thucydides, Hegel, Freud, Lewis-Stratton and Norman O. Brown. Clearly there is a danger that Vico will become all things to all men, but these comparisons are mostly justified by the breadth and universal interest of Vico's ideas. In the words of the editors: "Vico's thought constitutes the center of a wheel out of which many of the themes treated by such... thinkers radiate." Furthermore, these thinkers are supposed to share with Vico a conception of philosophy which makes Descartes the villain: they oppose the Cartesian reduction of the mind to its cognitive faculties and instead embrace a holistic, humanist conception of mankind.

The central problem of Vichian thought—indeed of any social science—receives, not surprisingly, much attention. According to Vico, the natural world, being alien to the human mind (a Cartesian analogue, surely?), cannot be properly known; only the human, social, cultural world is fully intelligible. This follows from Vico's "creative" theory of knowledge, according to which only what can be made by human beings can be known by them. The problem is that although, as Vico puts it, "the world of civil society has certainly been made by men", that world cannot be ex-

plained simply in terms of its having been intentionally created by men. For intentions notoriously go astray, and besides, the men that make society are themselves already social: man makes society but society makes man, a dialectical paradox that has become a commonplace since Marx. Vico's solution, which invokes the guiding hand of providence behind human social creativeness, is both obscure and unacceptable, and unfortunately the essayists are unable to throw much new light on it or on the general problem.

The final part of the book is devoted to Vico's conception of praxis. As Alain Pons points out, Vico's creative theory of knowledge has practical as well as epistemological implications. But although we can agree with Ernesto Grassi that Vico points towards "the rejection of any conception of philosophy as a science seeking its own ends in an ivory tower of pure speculation, secluded from the concrete history of man", nevertheless as the reader can discover from the new translation of the "Practica", Vico distinguishes between the political role of the intellectual and of the statesman, and the intellectual has a limited part to play, compared with that of the "aristocratic" statesman.

These and other Vichian themes are well worked over in these essays; the general standard is high, especially in view of the intraculturality of much of the material, and many valuable forays are made into present-day problems. Vico's vision of a humanist social science could hardly fail to find a sympathetic response in the anti-positivist climate of today, and his generous conception of the scope of philosophy is a wonderful corrective to the subject's constant tendency to slide into sterile academicism.

Andrew Belsey

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Seeing as Rousseau saw

Rousseau's Political Philosophy: An Interpretation from Within
by Stephen Ellenburg
Cornell University Press, £10.50
ISBN 0 8014 0960 8

Since the last war, Jean-Jacques Rousseau has excited a good deal of interest as a political philosopher. The old image of the "totalitarian ideologue", propagated alike by progressives such as Bertrand Russell and conservatives such as T. S. Eliot, is now virtually dead. The more impartial perspective and more exacting scholarship of recent writers, of Leigh, for example, and Masters, Shklar, Crispin, and Claret among others, has established anew the value and originality of what Rousseau had to say. Even the most signal contradictions in his arguments can no longer be treated as evidence of a defective intelligence; and the history of mental stress, which he himself chose to reveal to the world, can be invoked only to explain away, and not to explain any of the disturbing complexities and paradoxes of his thought.

Professor Ellenburg's new study of Rousseau's political philosophy is the most sympathetic yet. In this sense that the whole exercise is directed towards an endeavour to understand "from within", to expound and make clear rather than to criticize what Rousseau had to say. A remark about Rousseau having a "surprising blind spot" on the subject of women in politics is almost the only occasion when Ellenburg's willingness to see things as Rousseau saw them falters.

A central point of his case is that Rousseau did not believe in "individualism" in the liberal model; but lacking a word for Rousseau's conception of man, he calls it "non-individualism". Ellenburg is surely right to avoid the word "social", which, with its modern associations of "socialism" and "sociology", has acquired a rebarbative resonance. Rousseau believed that man was a political animal in the fullest possible sense; mainly that if a man could not be a citizen, his very nature was thwarted. By a citizen he meant something on the lines of a citizen of Sparta, and something totally opposed to a registered voter and taxpayer under the English constitutional monarchy, which after 1689 was the liberal paradigm, even in France. It is in showing how Rousseau differed from the liberal that Ellenburg is able most effectively to explain his singularity. At the same time he maintains that Rousseau, though not an individualist, was nevertheless an individualist, in the sense that the Rousseauesque "city" was not an institution which ruled over man, but one in which each man obeyed no rule but that which he imposed on himself.

Some of the problems of understanding Rousseau derive from his way of using words, and these are especially great for the English-speaking reader, since there is no exact equivalent even of familiar uses of words such as "droit", "prince", "cité" or "morale". Let alone Rousseau's peculiar and Ellenburg's always mind-boggling these difficulties and gives minute attention to questions of vocabulary; but he tolerates some errors in other people's translations—writing, for example, of *le Vicaire Savoyard* as the "Savoyard Vicar" (when an important point about that priest is that he is unbenevolent), and of Rousseau's "Lettres from the mountains" (instead of "Lettres de la montagne", which is the English way of speaking of *La montagne* in a generalized sense).

There is no lack of good books on Rousseau's politics, but Ellenburg fills a gap: partly because of the distinction in his approach and partly because of the way he makes of Rousseau's neglected literary works—the preface to *Nemesis*, for example—the throw light on his political ideas. There is also a good bibliography, and some excellent summaries of other publications on Rousseau, which will help to make Ellenburg's book especially useful to students.

Maurice Cranston

Philosophy from Oxford Problems from Locke

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This book takes up several topics including perception, substance and essence, abstract ideas and universals, personal identity, and empiricism and innate notions. On each topic it starts with an examination of the arguments of John Locke's *Essay*, but its chief aim is to advance discussion of the problems themselves. £6 paper covers £2.50

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BOOKS

On his own terms

Kant's Critique of Pure Reason—a Commentary for Students
by T. E. Wilkerson
Clarendon Press: Oxford University Press, £6.00
ISBN 0 19 824549 1

Recently, reviewing Kant's *Critique of Metaphysics* by W. H. Walsh, I raised the question of whether there was currently room for further books on Kant as there are so many first rank philosophers exploiting the first Critique as a sounding board for some independently conceived philosophical stance or theory: such men as Bennett and Buchdahl, Hintikka and Kambartiel, Rescher and Rorty, Sellars and Strawson. All of this work is of the highest philosophical interest, and Kant, through these interpretations, remains his influence upon the development of philosophy, but, with the exception of Buchdahl, all these authors plunder the text by failing to appreciate Kant's terminology in its historical context. Walsh's book is not only virtually free of this error, it is also clear and genuinely innovative, so I concluded that there was certainly room for yet another Kant book, because Walsh had provided it. Can the same be said of this book by Wilkerson?

Let me say at once that the book has many virtues. Designed as a commentary for students the book exceeds this modest ambition as it contains much ingenious argument which will be of interest to the most competent of those who plunder or are puzzled by the Kantian text. Yet at the same time the book is strangely unsatisfying. And I would like to locate the source of my disquiet at the expense of mentioning only fleetingly particular virtues: these being enormous clarity of exposition and a particularly strong handling of the *Dialectic*, an ingenious attack upon Kant's distinction between constitutive and regulative principles, and a thoughtful discussion of the nature of transcendental argument. If I mention these only in order to ignore them, it is not because I agree with them, but because they raise provincial issues rather than issues of principle—issues, nevertheless, of considerable philosophical interest. Let me rather try to articulate my disquiet by reference to two central theses of Wilkerson's book.

The *Critique* is a work of epistemology, an attempt to exhibit the cognitive relations between a knower and the world known. The interface—to use Hacking's useful phrase—between these two is, in Kantian terminology, a representation in its two varieties: of intuition and concepts. A firm grasp of this duality is thus crucial to a fair interpretation of Kant. Indeed, Lewis White Beck, Kant scholar extraordinaire, has remarked in one of his less formal moments that, had he to compress Kant's achievement into one sentence, this would be: in order to know and to act, it is necessary both to see and to think.

But, he might also add, to appreciate Kant's significance is, for brevity's sake, to concentrate on situations. Concepts would take us into a discussion of the merits of the chap-

Bishop Berkeley

A bibliography of George Berkeley, Bishop of Cloyne, his Works, and his Critics, in the Eighteenth Century, has been compiled by Geoffrey Oakes and published in the Soho Oxford University Press. It contains a full bibliographical description of minor works, including the major and translations, published in Berkeley's lifetime. In addition, detailed descriptions of contemporary works provoked by his writings, are

ter on schematism, which I take to be of crucial importance where Wilkerson believes it to deal with a "famous problem." That issue, like my disagreement with his view that the third analogy has "a shadowy existence" where, I rather take it, this is philosophically, as it is historically, prior to any engagement with those on substance and causality, occurs at a lesser level of principle than that I am after.

Now the term "intuition" like the generic "representation" is used to mean on the one hand, as a mental act; sometimes with the content, in the Scholastic sense, of such a mental act; while sometimes it is used to mean the object intuited. It is only in the first sense that the term "intuition" in Kant's sense comes to mean anything remotely akin to the twentieth century use of the word "perception": and then the *Kantian* is so remote that the word is misleading. But Wilkerson is quite happy to use "intuition" interchangeably with "perception" so that we get the inevitable result that Kant's transcendental idealism is rendered indistinguishable from Berkeley's idealism (thus making a fourth equation: of "intuition" with "idea").

Thus a first example of my disquiet is in Wilkerson's happy but, to be fair, not altogether unargued assumption that Kant's use of the words *Anschauung* and *Begriff* occupy the same conceptual locations as do the twentieth century words "perception" and "concept." There is a mistake. To say that the objects of perception in the world are representations, is not to say that they are "nothing but perceptions."

Let me turn to a second thesis: that last place for any Kant con-

mentary which comprises the conclusion. Deduction which tries to establish a necessary connection between a unified conclusion and a unified set of premises is a Kantian version of the argument that something will give us a promise: it is an argument that deserves applause, and not, unfortunately, it resembles a Kantian argument about a book.

Kant talks about representation having to be related to an act: the first-person pronoun, he says, is more usual and preferred than that representation has to be related to consciousness. This is not to be somebodys' representation, nothing whatsoever is to be related to the necessary unity of representation clearly this is something I can argue here, but would change body of Strawsonian persuasion explain the words "de" and "necessary": I doubt they can be except by begging the question, saying they are there by taking.

These two examples plainly explain my fundamental disquiet: Kant's book is severely damaged to help students grasp the Kantian text: but at the same time it fails to come to grips with its own language. And with respect to the language we cannot stand or appraise the argument which it is used.

M. J. Scott-Taggart

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BOOKS

Neo-Thomist inspired by the high Middle Ages

Jacques Maritain, *Antimodern or Ultramodern? — An Historical Analysis of his Critics, his Thought and his Life*
by Brooke W. Smith
Harvard, \$10.75
ISBN 0 444 99013 5

The theological counterpoints in Western Christendom of the late nineteenth century belief in the inevitable progress of civilization were liberal Protestantism and Catholic modernism. The holocaust of the First World War shattered that easy optimism and, theologically, bred the twin reactions of neo-Calvinism and neo-Thomism.

Neo-Calvinism, as exemplified in the work of the great theologian, Karl Barth, revived the theological insights of the Protestant Reformation. Christianity made the doctrine of Original Sin central and central to its preaching. Without God's grace, which comes as a quite unmerited gift of faith, man's nature is irredeemably corrupt and sinful. Man's reason is inevitably tainted by his corruption, so that the belief that man can, by his own unaided rea-

son, order and control his destiny in the world is sheer, unbelievable folly, the product of sinful pride. To the liberal theologian, this message sounded dangerously anti-intellectual and irrational.

For its part, neo-Thomism struck further back into Christianity's historical past and found its inspiration in the high Middle Ages. There, under the powerful influence of one of the greatest philosopher-theologians of all time, Thomas Aquinas, who harnessed the philosophical insights of Aristotle in the service of Christian theology, the neo-Thomists claimed to discover the almost perfect model of a truly Christian culture and civilization in which the right balance existed between the spiritual and the temporal, with the spiritual infusing and perfecting the temporal.

In the inter-war period, when neo-Thomism was most in the ascendant, Jacques Maritain, the French philosopher and theologian was undoubtedly one of the movement's leading lights. Certainly in Britain, through the efforts of devoted admirers, Christopher Dawson, his prolific writings on social, cultural and political subjects from a Thomist standpoint, were effectively brought to

the notice of intellectually committed Christians.

Unlike neo-Calvinism, neo-Thomism could hardly be accused of being anti-rational or anti-philosophical, since Aquinas defended Christianity from a base developed from the rationalism of Greek philosophy. But neo-Thomism did condemn modern philosophy developments stemming from the seventeenth-century philosophical revolution, and Descartes as a horrible mistake. It also viewed the fruits of Newton's scientific revolution, which in many respects ushered in the modern world, with distinct distrust. Neo-Thomism found itself at odds with modern industrial, commercial and scientific civilization. Not surprisingly, its critics condemned it for wanting to accomplish the impossible, by obliterated all traces of the modern world and turning the clock back to the high Middle Ages.

Professor Smith, who teaches history at the University of New Mexico, has written what is far too short a book (nearly 40 of its pages are taken up by notes, an extensive bibliography and a poor index) in defence of the thesis that Maritain

can be successfully defended against the contrary charges of his many critics of being either anti-modern or ultra-modern.

He is only anti-modern, she claims, in the sense that he condemned all those materialistic tendencies in modern Western civilization which threatened the growth of that spirituality which is at the core of the Christian faith. In this regard he lined up with Marxists in his condemnation of capitalism.

As for the charge of being ultra-modern, he is only guilty, claims Smith, to the extent that he accused the modern Catholic Church and its hierarchy of being the unwitting tools of the educated bourgeoisie in keeping the masses in a state of intellectual stupor and ignorance, particularly in matters of doctrine. Maritain was ultra-modern in the sense that he supported all liberal movements which aimed at the logical emancipation of the Catholic masses. To this extent he has been the architect of recent far-reaching changes in the Roman Catholic Church.

It seems that Smith, through her extensive reading of the vast literature on Maritain's thought and philosophy, has got hold of a thesis

well worth expanding and defending. Alas, she writes from the standpoint of a devoted but uncritical devotee of her idol, and her discussion, although readable, is far too superficial ever to rank as a serious contribution which furthers our understanding of the complex strands in Maritain's thought. Although her publishers claim she offers an "analysis" of Maritain's views, there is in fact precious little analysis, since the level of discussion never rises above the straightforward summary of what Maritain and others have written.

Moreover the book is curiously structured. It ends with a brief biography, outlining early influences on Maritain. Had she chosen to open her book with this chapter, Smith might well have been led to reflect on the fact that his grandfather abandoned Catholicism for liberal Protestantism, and that his mother brought him up in this strongly liberal theological atmosphere; this was the starting point of the story of his conversion to Thomism, via youthful contact with socialism and the love affair which ended in marriage with his neurotic but deeply mystical wife.

T. A. Roberts

Reviewers

Anthony Clare's most recent book is *Psychiatry in Dissonance*, he is a clinical psychologist at the Institute of Psychiatry, London; Anthony Kenny is tutor in philosophy at Balliol College Oxford and has written a study of Wittgenstein. M. J. Scott-Taggart is reader in philosophy at the University of East Anglia;

T. A. Roberts, professor of philosophy at University College of Wales, Aberystwyth, is author of *The Concept of Benevolence*; Alan Ryan is a fellow of New College Oxford.

Delving into Descartes

Descartes' *Conversation with Burman* translated with Introduction and commentary by John Cottingham. Clarendon Press: Oxford University Press, £6.50
ISBN 0 19 824528 9

René Descartes died in 1650. In 1648, when he was 52 years old, he was visited by a 20-year-old Dutchman, Frans Burman, who was later to become professor of theology at the University of Utrecht.

Burman came armed with over 70 short passages taken from Descartes' *Meditations*, *Replies to Objections*, *Notes against a Programme*, *Principles and Discourse*. Some of the passages were evidently ones of which he wanted no more than an elucidation; others were ones regarding which he had objections to put to Descartes. They conversed in Latin, possibly over a meal for part of the time. (Descartes illustrates the point that one can have two thoughts at the same time by saying "I now have the thought that I am talking and that I am eating.")

Whether Burman took down Descartes' comments word for word, or took notes to be written up later, is not known. In the manuscript, dated four days after the meeting, Descartes' replies are described as "obtained directly from the man himself". Since the discussion was not free-flowing, but tied to particular passages of text earmarked in advance, it is quite possible that what has come down to us differs from what Burman actually wrote at the time only in that his friend John Claubert helped him to convert a verbatim report into readable prose. John Cottingham's book comprises an introduction, a translation of the MS, and a full and scholarly commentary on the text.

In his introduction Cottingham makes a large claim. *The Conversation* "covers round aspects of Cartesian philosophy, the area of living interest to philosophers today—the key issues in Theory of Knowledge, Philosophy of Mind, and Philosophical Psychology on which Descartes' thought is so fertile". In some respects I think this leads us to expect rather more than we find.

There is the question of the relation of body and mind, for instance. In *Meditations VI*, Descartes had written: "Nature teaches through the sensations of pain, hunger, thirst, etc.; that I am not only present in my body as a sailor is present in a ship, but that I am very closely joined to it, as it were, intermingled with it." Burman asks: "But how can this be, and how can the soul be affected by the body and vice versa, when their natures are so completely dif-

ferent?" In his commentary Cottingham says that Burman's question "puts in a nutshell the most serious difficulty of Cartesian dualism". Descartes' reply to this key question is distinctly disappointing. "This is very difficult to explain; but here our experience is sufficient, since it is so clear on this point that it just cannot be said." Our experience may be sufficient to establish that something is so; but the question was how it can be so, given the Cartesian doctrine that body and soul are completely different in their nature.

Cottingham comments that perhaps Descartes is sadly admitting the existence of a basic fact that just cannot be accommodated within his philosophical system. I am not sure whether Descartes would be prepared to make such an admission. His treatment of the problem of reconciling God's pre-ordination with our free will might be held up as an example of his being prepared to accept some things as being beyond our understanding. But it is one thing to say that we cannot expect to understand things involving God and quite another to say that we cannot expect to understand things about our own nature. Descartes thought that his method of doubt provides us with a means of arriving at certain truth about our own nature.

Although the *Conversation* does nothing to remove "the most serious difficulty of Cartesian dualism", it helps to shed light on a great many questions of Cartesian dogma. For example, is "I exist" a proposition we are supposed to know immediately and directly, or only mediately, via some process of reasoning? Is there a circle involved in holding both that the reason we have for being sure that what we clearly and distinctly perceive is true is that God exists, and that we are sure God exists because we perceive this clearly? In what sense are our ideas "innate"? What reason is there for holding that God has created us "in his image"?

I wonder if Descartes ever tired of being required to defend and elucidate what he had written earlier. When Burman had finished asking him about what he had said in the *Meditations*, and before he started on the other works, Descartes seemingly volunteered a remark unrelated to any question Burman had asked. "A point to note is that you should not devote too much effort to the *Meditations* and to metaphysical questions, or give them elaborate treatments in commentaries and the like. Still less should one try to do what some try to do, and dig more deeply into these questions than the author did: he has dealt with them quite deeply enough."

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up to K4560 (c.£3050), Supplement up to £312 (married), £1702 (single).

Responsibilities:

to adapt teaching methods in a practical way to the environment, which may be in a rural or urban area, and contribute energetically to activities outside the classroom.

Strong financial attractions

As well as the salary quoted, you will enjoy TAX-FREE supplements, a TAX-FREE terminal gratuity, low-cost accommodation, low taxation and free passages. Together these add up to exceptional real earnings. Starting salary relates to qualifications/experience, while graduates and 25% of basic salary. Salary-related supplements are reviewed annually and paid by the British Government to designated British nationals (annual maximum is shown), while appointment grants, education allowances, car loan, medical aid assistance and free holiday visits for children educated in Britain are also provided for these teaching supplements. N.B. Sterling equivalents given are approximate only due to constant exchange rate fluctuations.
For further information please send full personal/professional details (without obligation and in total confidence), indicating which position interests you, to: Recruiting Officer (Room 11), Zambia High Commission, 711 Cavendish Place, London, W1.

FACULTY OF EDUCATION, DOHA, QATAR

Applications are invited for appointment to the position of

PROFESSOR OF ENGLISH

at the Faculty of Education, Doha, Qatar

to take up the appointment in September, 1977. Candidates must have a doctorate qualification in English Language and Literature, be native speakers of English and have considerable experience, not less than twelve years, some of it in a British, Canadian or accredited American university and some of it at professional level. Experience of teaching training would be an advantage.

Salary on the scale of Qatar Riyals 7,800 per month plus increments of Rls. 200, to maximum Rls. 8,800, plus 25% for full-time commitment (E1 equals approximately Rls. 7).
Benefits: No income tax; free, furnished accommodation; free medical service; annual passage-paid leave; car allowance of Rls. 400 per month.

Applications should be sent with curriculum vitae to the Dean, Faculty of Education, P.O. Box 2713, Doha, Qatar, Arabian Gulf.

Overseas continued

RIVERINA COLLEGE OF ADVANCED EDUCATION WAGGA WAGGA, NEW SOUTH WALES

The College invites applications for the following positions within the School of Business and Liberal Studies:

LECTURER IN INDUSTRIAL RELATIONS

The College proposes introducing a two-year course in Industrial Relations at the Associate Diploma Level in 1977, and seeks a person to coordinate the introduction and implementation of the course. A knowledge of personnel management, organizational theory, and organizational development would be an advantage.

ASSISTANT LECTURER/LECTURER IN MANAGEMENT

The College is seeking a person to teach introductory subjects in management and organization theory, as well as a person to coordinate the introduction and implementation of the course. A knowledge of personnel management, organizational theory, and organizational development would be an advantage.

Salary range: Assistant Lecturer A\$11,492-A\$13,228.

Lecturer A\$13,228-A\$17,687.
(All figures are per annum.)
Members of staff are eligible, subject to certain conditions, to participate in an attractive superannuation scheme and to participate in a housing purchase plan. A contribution is made to travel and removal expenses or an assisted passage arranged as appropriate. Leave conditions are similar to those in comparable tertiary institutions.
Further information and application forms are available from the Agent-General for New South Wales, 55 The Strand, London, with whom applications close on 12th November, 1976.

Principal Senior Lecturer in Childhood Education

Applications are invited for the above post from candidates with outstanding qualifications and expertise in early childhood education. The successful candidate will be required to accept major responsibility for the academic and professional development of this area of education in the college and for a number of academic staff associated with this work.

Salary range: Principal Lecturer \$A22,078-\$A22,782; Senior Lecturer \$A18,034-\$A20,928.

Applicants should include in their curriculum vitae (a) academic qualifications in detail with dates, (b) relevant professional experience, (c) teaching/lecturing experience, (d) names and addresses of three referees well acquainted with the applicant's qualifications and/or professional work.

Further information may be obtained by contacting the Secretary, Armidale College of Advanced Education, Mossman Street, Armidale, NSW 2350, Australia. Applications close on Monday, 22nd November, 1976, and should be addressed to the Secretary.

UNITED WORLD COLLEGES

THE UNITED WORLD COLLEGE
Johore, Brunei Darussalam, a RESIDENTIAL COLLEGE

Required for January, 1977:
Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE

These posts are for the Board of Studies in English, which is a residential college for students from all over the world. The college is located in Johore, Brunei Darussalam, and is a member of the United World Colleges Association. The college is seeking applications for the above posts from candidates with outstanding qualifications and experience in English language teaching.

Further information and application forms are available from the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

Applications should be sent to the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

Applications should be sent to the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

THE BRITISH COUNCIL

Invites applications for the post of

Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE
Principal Lecturer in English, a RESIDENTIAL COLLEGE

These posts are for the Board of Studies in English, which is a residential college for students from all over the world. The college is located in Johore, Brunei Darussalam, and is a member of the United World Colleges Association. The college is seeking applications for the above posts from candidates with outstanding qualifications and experience in English language teaching.

Further information and application forms are available from the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

Applications should be sent to the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

Applications should be sent to the United World Colleges Association, 100, Victoria Road, London, W1B 4AA.

A job you'll enjoy

There's more to the job of Inspector of Taxes than just inspecting the tax returns of individuals and companies. It's an intellectual challenge, for in fact, the many graduates find it to be the work they take up, when compared to their former life as students.

As an Inspector in charge of a Tax District you are responsible for the tax affairs of individuals and companies large and small in that area. You will deal personally with the more important cases, which will demand all your intellectual skills in reaching a fair and proper decision. In negotiation with a taxpayer's professional advisers you will need to exercise in full the intensive training in law and accountancy you receive.

During your career you could take charge of the tax affairs of an entire district, enjoying wide powers of discretion. You may also spend periods on more specialised aspects of

taxation and acquire an enviable professional expertise - in itself a valuable career asset. Qualifications: Under 32 and a degree with honours - at least second class honours ability is looked for. Final Year Students may apply.

If you start at 21, your salary should be over £4,500 at 23 and over £5,900 at 27. By your late 30's you should be earning over £9,000. By 40 you could be in a post with the Tax Inspectorate or in general management in the Civil Service, taking you to £11,000. There are vacancies all over the country. Salaries up to £485 higher in London.

To find out more, and for an invitation to visit a Tax Inspector, write to Civil Service Commission, Alencon Link, Basingstoke, Hants, RG21 1JB. Please quote reference A/3201/L.

HONOURS GRADUATES - a career that appeals to reason

HM Inspectors of Schools

ART EDUCATION

Applications are invited from men and women, preferably aged between 25 and 45, for appointment as HM Inspector with a major commitment in Art Education.

HM Inspectors provide professional advice to the Department of Education and Science. All HMIs ordinarily carry a general assignment as well as a specialist one. They inspect and advise schools, consult with LEAs and agencies and take part in short courses for teachers and others in the educational service.

Candidates must have an appropriate qualification and have had a successful career in some aspect of art education. In addition, they must have, or be prepared to acquire, an understanding of other art forms.

Starting salary within the range £6,826 to £9,416 (higher in London). Supplement under the Government's pay policy payable up to £3,500. Higher posts are normally filled by promotion.

Application forms and further information may be obtained from Miss B. C. Taylor, Department of Education and Science, Room 10/2, Elizabeth House, 28 York Road, London SE1 7PH, telephone 01-928 9222, extension 2237. Please quote 77/55. Closing date 10 November.

Department of Education and Science

LONDON GRADUATE SCHOOL OF BUSINESS STUDIES

Applications are invited for the post of

Assistant Accountant

for finance and accounting control systems at the London Graduate School of Business Studies.

Candidates, preferably with university administrative experience, should hold formal accountancy qualifications. They should be at the initial stage of such qualification, and, as the Assistant Accountant responsible for the Finance Office of the institution, will be entirely responsible for a complete section of the school's accounts to final account and audit, together with responsibility for pension schemes at the school (UGS/FSBU).

The commencing salary will be within the scale £3,216 to £5,052 per annum.

Appointments can be arranged to discuss the post in greater detail by telephoning or writing to Mr. A. S. Cook, the Finance Officer, at: THE LONDON BUSINESS SCHOOL, Essex Place, Regent's Park, NW1 4SA. Telephone no. 01-262 5050.

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01-637 1234, Extn 575

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Colleges of Higher Education

HEREFORD AND WORCESTER

Worcester College of Education
Hereford College of Education

Applications are invited from graduates for the post of Lecturer in Education at the Worcester College of Education.

Further information and application forms are available from the Worcester College of Education, Worcester, WR1 1AA.

Applications should be sent to the Worcester College of Education, Worcester, WR1 1AA.

Co-operative College

PRINCIPAL and

CHIEF EDUCATION OFFICER

Applicants are invited for the post of Principal of the Co-operative College/Chief Education Officer of the Co-operative Union whose services in Co-operative staff and member education are operated from Stanford Hall near Loughborough.

It is envisaged that the successful applicant would work alongside the present Officer until his retirement in the summer of 1977.

An attractive salary will be paid and residential accommodation is available.

Full particulars can be obtained from the General Secretary, Co-operative Union Ltd, Holme House, Hanover St, Manchester M60 0AS, to whom applications should be sent by not later than Tuesday, November 30, 1976.

LIBYAN ARAB REPUBLIC

TECHNICAL INSTRUCTORS

LIBYAN INSTITUTE OF PETROLEUM (LIP)

LIP Tripoli is expanding its training effort and is seeking Instructors/Engineers to teach Libyan Apprentices, technical skills and workshop technology to prepare them as craftsmen and operators in the Oil Industry. Instructors will also be responsible for developing and revising courses and course manuals and identifying training requirements in connection with the career development of trainees.

Applicants must have at least Ordinary National or City and Guilds Certificates and no less than five years' practical experience. A teaching qualification or craft training experience is essential. Instructors/Engineers are required in the following areas:

1. Instrumentation - including pneumatic technology and electronic automation systems.
2. Electricity - including generators, transmission and controls.
3. Diesel/Petrol Engines - including turbine pumping units and compressors.
4. Computer programmer and system analyst.
5. Industrial and oil field safety instructor.

Attractive salaries, according to experience and qualifications, 45 days' annual leave with fares paid to the UK and other benefits will be offered.

Please write immediately giving details of personal vitae, qualifications and experience to:

The Director
LIBYAN INSTITUTE OF PETROLEUM
care of Cultural Attache
Embassy of the Libyan Arab Republic
58 Prince's Gate, London SW7

Personal interviews will be held in London between November 1 and November 12.